

Current as of July 12, 2006

APPENDIX D

WORK SCHEDULE

Listing of Currently Identified Interim and Major Milestones and
Target Dates

NOTES:

Major Milestones are indicated by a -00 suffix (example, M-21-00). Interim Milestones are indicated by a suffix greater than zero (example, M-22-02). A target date is indicated by a "T" (example, M-21-02-T01). See Section 2.0 of this Action Plan for more details.

Milestones and target dates which are completed, or have been deleted by an approved Tri-Party Agreement change request, are not displayed in Appendix D and have been archived.

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-015-00	COMPLETE THE RI/FS (OR RFI/CMS) PROCESS FOR ALL OPERABLE UNITS.	12/31/2008
M-015-00C LEAD AGENCY: DUAL (see note)	COMPLETE ALL 200 AREA NON-TANK FARM OPERABLE UNIT PRE-ROD SITE INVESTIGATIONS UNDER APPROVED WORK PLAN SCHEDULES. Note: See operable unit LRA designation listing in Appendix C.	12/31/2008
M-015-44B	SUBMIT 200-MW-1 OU FEASIBILITY STUDY AND PROPOSED PLAN.	04/30/2007
M-015-45A	SUBMIT PLUTONIUM/ORGANIC-RICH OU REMEDIAL INVESTIGATION REPORT INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-PW-1 OU PLUTONIUM/ORGANIC-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU, 200-PW-3 ORGANIC-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU, AND 200-PW-6 PLUTONIUM-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU.	10/31/2006
M-015-45B	SUBMIT PLUTONIUM/ORGANIC-RICH OU FEASIBILITY STUDY AND PROPOSED PLAN INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-PW-1 OU PLUTONIUM/ORGANIC-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU, 200-PW-3 ORGANIC-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU, AND 200-PW-6 PLUTONIUM-RICH PROCESS CONDENSATE/PROCESS WASTE GROUP OU.	09/30/2007
M-015-46B	SUBMIT 200 AREA CHEMICAL LABORATORY WASTE OUs FEASIBILITY STUDY AND PROPOSED PLAN/PROPOSED PERMIT MODIFICATION, INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-LW-1 AND 200-LW-2 200 AREA CHEMICAL LABORATORY GROUPS.	11/30/2006
M-015-48B	SUBMIT DRAFT A 200-ZP-1 CERCLA FEASIBILITY STUDY/PROPOSED PLAN TO EPA.	05/31/2007
M-016-00 LEAD AGENCY: DUAL (see note)	COMPLETE REMEDIAL ACTIONS FOR ALL NON-TANK FARM OPERABLE UNITS. Note: See operable unit LRA designation listing in Appendix C.	09/30/2024
M-016-00A	COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100 AREAS. COMPLETION OF INTERIM RESPONSE ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD OR ACTION MEMORANDUM REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN OR REMOVAL ACTION WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS.	12/31/2012
M-016-00B	COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS INCLUDING THE 618-10 AND 618-11 BURIAL GROUNDS. COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAIN EPA APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00.	09/30/2018

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-016-14A	COMPLETE CONSTRUCTION ON A 300 FOOT PERMEABLE REACTIVE BARRIER UTILIZING APATITE SEQUESTRATION AT 100-N AS DESCRIBED IN "STRONTIUM-90 TREATABILITY TEST PLAN FOR 100-NR-02 GROUNDWATER OPERABLE UNIT; DOE-RL-2005-96, DRAFT "A".	12/31/2006
M-016-14B	SUBMIT A DRAFT CERCLA PROPOSED PLAN (PP) TO EITHER AMEND THE 1999 100-NR-01/NR-02 ROD FOR INTERIM ACTION OR TO PROPOSE A NEW ROD. THE PP WILL EVALUATE THE PERMEABLE REACTIVE BARRIER TECHNOLOGY AS WELL AS OTHER ALTERNATIVES AND SELECT A NEW ALTERNATIVE IN ACCORDANCE WITH CERCLA REQUIREMENTS.	3/31/2008
M-016-45	COMPLETE THE INTERIM REMEDIAL ACTION FOR THE 100 B/C AREA.	12/31/2006
M-016-46	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTE SITES FOR THE 100 D AREA.	07/31/2006
M-016-47	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 D AREA.	12/31/2011
M-016-49	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 F AREA.	12/31/2008
M-016-50	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 H AREA.	07/31/2007
M-016-51	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 H AREA.	12/31/2010
M-016-52	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 K AREA INCLUDING CLOSURE OF THE 1706-KE WASTE TREATMENT SYSTEM IN ACCORDANCE WITH SECTION 5.5 OF THE AGREEMENT ACTION PLAN.	07/31/2009
M-016-53	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 K AREA.	12/31/2012
M-016-54	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 N AREA.	07/31/2008
M-016-55	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 N AREA.	12/31/2012
M-016-56	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR 100-IU-2 AND 100-IU-6.	12/31/2008
M-016-57	INITIATE SOIL REMEDIATION AT K EAST BASIN. INITIATE FULL SCALE REMEDIAL ACTION OF THE 105-KE FUEL STORAGE BASIN WASTE SITE WITHIN ONE MONTH OF COMPLETING MILESTONE M-34-32.	04/30/2007
M-016-58	INITIATE SOIL REMEDIATION AT K WEST BASIN. INITIATE FULL SCALE REMEDIAL ACTION OF THE 105-KW FUEL STORAGE BASIN WASTE SITE WITHIN ONE MONTH OF COMPLETING MILESTONE M-34-00A.	04/30/2009
M-016-60	COMPLETE INTERIM REMEDIAL ACTIONS FOR AT LEAST 3 OF THE FOLLOWING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (316-4, 618-2, 618-3, 618-5 AND 618-7) AND COMPLETE CONFIRMATORY SAMPLING OF 300-FF-2 CANDIDATE SITES 300-7 AND 300-9.	12/31/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-016-61	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE REMAINING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (618-2, 618-3, 618-5 AND 618-7).	12/31/2008
M-016-62	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, AND 618-13 (SEE TABLE 1 IN TPA CHANGE REQUEST M-16-01-06).	12/31/2012
M-016-64	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06).	09/30/2010
M-016-67	<p>SUBMIT A TECHNOLOGY DEVELOPMENT SUMMARY REPORT FOR PHASES I, II AND III, AN INTERMEDIATE DESIGN REPORT, A REMEDIATION SCHEDULE AND A TREATABILITY INVESTIGATION WORK PLAN FOR REMEDIAL ACTIONS AT THE 618-10 AND 618-11 BURIAL GROUNDS.</p> <p>THE TECHNOLOGY DEVELOPMENT SUMMARY REPORT FOR PHASES I, II AND III WILL DOCUMENT THE RESULTS OF THE EM-50 ACQUISITION STRATEGY RELATING TO THE IN-SITU DELINEATION AND WASTE REMOVAL OF RADIOACTIVE WASTE AT THE HANFORD 618-10 AND 618-11 BURIAL GROUNDS. THE INTERMEDIATE DESIGN REPORT SHOULD REPRESENT A 60% COMPLETE DESIGN REPORT AND SHOULD INCLUDE AT A MINIMUM, THE REMEDIATION APPROACH (i.e., PROCESS DEFINITION), EVALUATION OF INFRASTRUCTURE REQUIREMENTS [i.e., M-91 AND WIPP INTEGRATION PLANNING], AND UPDATED DRAWINGS/TECHNICAL SPECIFICATIONS. THE REMEDIATION SCHEDULE MUST IDENTIFY: 1) DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES; AND 2) ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL PRIOR TO INITIATING REMEDIAL ACTIONS (E.G., RD/RA WORK PLANS, ETC.). DEPENDING ON THE OUTCOME OF THE TECHNOLOGY DEVELOPMENT ACQUISITION STRATEGY, A TREATABILITY INVESTIGATION WORK PLAN FOR KEY ASPECTS OF THE FINAL REMEDIATION APPROACH WILL BE REQUIRED. THE TREATABILITY INVESTIGATION WORK PLAN MUST BE CONSISTENT WITH WIPP'S ACTUAL (OR, IF NOT YET APPROVED, ANTICIPATED) RH-TRU/TRUM WASTE ACCEPTANCE CRITERIA, INCORPORATE THE RESULTS FROM THE TECHNOLOGY DEVELOPMENT SUMMARY REPORT, AND WILL BE SUBMITTED AS A TRI-PARTY AGREEMENT PRIMARY DOCUMENT.</p>	03/31/2007
M-016-69	<p>COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS TO INCLUDE CONFIRMATORY SAMPLING OF ALL CANDIDATE SITES LISTED IN THE 300-FF-2 ROD (EXCEPT FOR 618-10 AND 618-11 BURIAL GROUNDS).</p> <p>COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAINS EPA APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. COMPLETION OF CONFIRMATORY SAMPLING IS DEFINED AS THE COMPLETION OF THE SAMPLING NECESSARY TO DETERMINE WHETHER OR NOT THE WASTE SITE</p>	09/30/2015

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	MEETS CRITERIA FOR CLEANUP OR CAN BE CLOSED OUT FROM THE WASTE INFORMATION DATA SYSTEM (WIDS) AS DEFINED IN THE RD/RA WORK PLAN. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00.	
M-016-72	SUBMIT DRAFT 100 AREA AND 300 AREA COMPONENT BASELINE RISK ASSESSMENT REPORT.	06/30/2007
M-016-73	INITIATE SUBSTANTIAL AND CONTINUOUS SOIL REMEDIATION AT THE 618-1 BURIAL GROUND.	09/30/2008
M-016-74	COMPLETE INTERIM REMEDIATION, (TO INCLUDE EXCAVATION LOADOUT, CLOSEOUT SAMPLING, BACKFILL AND REVEGETATION), FOR ALL 300 AREA "INSIDE THE FENCE" WASTE SITES NORTH OF APPLE STREET, EXCEPT THAT FOR THE 300-RLWS, 300-15, 300-4, 300-268 AND 300-123 WASTE SITES REMEDIATION NEED ONLY BE COMPLETED THROUGH EXCAVATION AND LOADOUT.	09/30/2012
M-016-75	INITIATE SUBSTANTIAL AND CONTINUOUS REMEDIATION ON THE 309 FACILITY DEDICATED RADIOACTIVE LIQUID WASTE SEWER (300 RLWS) AND THE 300 AREA PROCESS SEWER (300-15) SYSTEMS. DEDICATED SEWERS SHALL BE CONSIDERED LINES THAT SERVE NO OTHER BUILDINGS THAN THE 309 FACILITY, AND BE LOCATED WITHIN THE QUADRANGLE FORMED BY THE FOLLOWING STREETS: REDWOOD STREET, NEW MEXICO AVENUE, CYPRESS STREET, AND CALIFORNIA AVENUE.	09/30/2013
M-016-93 LEAD AGENCY: EPA	SUBMIT AN IMPLEMENTATION WORK PLAN TO EPA FOR THE ACQUISITION OF CAPABILITIES NECESSARY TO PREPARE TRU AND TRUM WASTE GENERATED BY CERCLA CLEAN UP ACTIONS AT THE HANFORD SITE FOR DISPOSAL AT THE WASTE ISOLATION PILOT PLANT (WIPP). THIS WORK PLAN WILL REFLECT RETRIEVAL DECISIONS, PROJECTED WASTE VOLUMES, AND SCHEDULES FROM ALL CERCLA CLEANUP ACTIONS AUTHORIZED IN RECORDS OF DECISION AND ACTION MEMORANDA AT THE HANFORD SITE, AND WILL PROVIDE FOR UPDATES AND REVISIONS AS NEW INFORMATION BECOMES AVAILABLE (AT A MINIMUM, THE WORK PLAN MUST BE REVISED IN 2009 [AFTER ALL 200 AREA RODS ARE ISSUED] AND IN 2012). AS PART OF THE APPROVAL PROCESS, EPA WILL CONSULT WITH ECOLOGY TO ENSURE THAT WASTES FROM CERCLA OPERABLE UNITS FOR WHICH ECOLOGY IS THE LEAD REGULATORY AGENCY ARE PROPERLY PLANNED FOR. THIS WORK PLAN WILL PROVIDE A SCHEDULE FOR ACQUIRING THE CAPABILITIES FOR TRU AND TRUM MANAGEMENT NECESSARY TO SUPPORT ALL CERCLA CLEANUP ACTIONS. IN ORDER TO AVOID DUPLICATIVE REQUIREMENTS, THE M-16-93 WORK PLAN WILL INTEGRATE PLANS DEVELOPED PURSUANT TO THE M-91 MILESTONES TO PROVIDE CAPABILITIES FOR RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE WHERE SUCH CAPABILITIES ALSO CAN BE USED FOR CERCLA TRU/TRUM WASTE. THE WORK PLAN WILL BE SUBMITTED PURSUANT TO SECTION 11.6 OF THE TRI-PARTY AGREEMENT.	09/30/2006
M-020-00 LEAD AGENCY: ECOLOGY	SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POSTCLOSURE PLANS FOR ALL RCRA TSD UNITS EXCEPT 303-M OXIDE FACILITY AND 1706-KE WASTE TREATMENT SYSTEM. PERMIT APPLICATIONS, CLOSURE, AND POST-CLOSURE PLANS WILL BE SUBMITTED TO ECOLOGY	12/31/2008

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>FOR APPROVAL. INDIVIDUAL UNIT SUBMITTALS (ENFORCEABLE AS INTERIM MILESTONES) WILL OCCUR AS SHOWN IN APPENDIX D.</p> <p>PRECLOSURE WORK PLANS WILL BE PREPARED AND SUBMITTED FOR APPROVAL FOR TSD UNITS WHICH WILL ACHIEVE CLOSURE IN CONJUNCTION WITH THE DISPOSITION OF THE FACILITY IN WHICH THEY ARE CONTAINED.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-20 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-20 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	
M-020-00B	SUBMIT CLOSURE/POST-CLOSURE PLANS FOR 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72. THE 303-M OXIDE FACILITY CLOSURE/POST CLOSURE, PER APPROVED CHANGE FORM M-20-92-05, IS COVERED SEPARATELY UNDER M-94-01 AND THE 1706-KE WASTE TREATMENT SYSTEM CLOSURE/POST CLOSURE IS COVERED SEPARATELY UNDER M-16-52.	12/31/2008
M-020-54	SUBMIT 241-CX-70 STORAGE TANK, 241-CX-71 NEUTRALIZATION TANK, 241-CX-72 STORAGE TANK CLOSURE/POST CLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE 200-IS-1 TANKS/LINES/PITS/BOXES OPERABLE UNIT WORK PLAN FEASIBILITY STUDY SCHEDULED UNDER M-13-00M.	12/31/2008
M-024-000 LEAD AGENCY: ECOLOGY	COMPLETE REQUIRED WELL INSTALLATIONS IN ACCORDANCE WITH THE RCRA AND CERCLA GROUNDWATER REQUIREMENTS. THE M-24 MILESTONE SERIES WILL BE CLOSED WHEN THE PARTIES AGREE THAT SUFFICIENT RCRA AND CERCLA GROUNDWATER WELLS ARE IN PLACE AND OPERATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION.	TO BE DETERMINED
M-024-57 LEAD AGENCY: ECOLOGY	INSTALL A MINIMUM OF 60 WELLS (SEE ATTACHED WELL LIST). DOE WILL INITIATE DISCUSSIONS ANNUALLY IN JUNE USING THE DATA QUALITY OBJECTIVE PROCESS (DQO) TO REAFFIRM THE SELECTED WELLS AND RECOMMEND ANY NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE CONSISTENT WITH SITE-WIDE CLEAN-UP PRIORITIES. THE PARTIES WILL CONCLUDE NEGOTIATIONS AND REVISE M-24-57 BY AUGUST 1 OF EACH YEAR TO MAINTAIN A FOUR YEAR COMMITMENT FOR WELL INSTALLATIONS. THE LIST FOR CY 2005 IS INCLUDED AS	DUE DATES ARE AS INDICATED IN THE DESCRIPTIVE TEXT OF THE MILESTONE

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ATTACHMENT 1 TO THIS TPA CHANGE PACKAGE (M-24-05-01). ATTACHMENT 2 TO THIS TPA CHANGE PACKAGE (M-24-05-01) CONTAINS THE LIST OF WELLS TO BE INSTALLED CY 2006-CY 2008.</p> <p>SINCE ALL WELLS ARE DRILLED IN CERCLA OR RCRA PAST PRACTICE OPERABLE UNITS, THE PARTIES AGREED THAT THE MOST EFFECTIVE AND EFFICIENT METHOD OF MANAGING WASTES FROM ALL HANFORD WELL DEVELOPMENT DRILLING WOULD BE TO DISPOSE OF THE WASTE IN THE HANFORD ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF). THIS WORKSCOPE WOULD BE CONDUCTED UNDER THE M-24 SERIES MILESTONES AND WILL NEED TO MEET ERDF DISPOSAL REQUIREMENTS THROUGH THE TIMELY SUBMITTAL OF CERCLA SAMPLING AND ANALYSIS PLANS (OR REVISIONS TO EXISTING CERCLA SAMPLING AND ANALYSIS PLANS) FOR THE APPROPRIATE OPERABLE UNIT, APPROVED BY THE ASSIGNED LEAD REGULATORY AGENCY.</p> <p>THE INTEGRATION AND COORDINATION OF WELL DRILLING UNDER THE REVISED TRI-PARTY AGREEMENT M-24 MILESTONE SERIES WILL ASSURE CERCLA NEEDS ARE INCORPORATED INTO THE OVERALL DRILLING CAMPAIGN. IN ADDITION, THE PARTIES REAFFIRMED THEIR COMMITMENT TO SECTION 5.5 OF THE TRI-PARTY AGREEMENT ACTION PLAN, THE NEED TO COORDINATE THE APPLICATION OF REGULATORY REQUIREMENTS, AND THAT PAST-PRACTICE AUTHORITY MAY PROVIDE THE MOST EFFICIENT MEANS FOR ADDRESSING MIXED-WASTE GROUNDWATER CONTAMINATION PLUMES ORIGINATING FROM A COMBINATION OF TSD AND PAST-PRACTICE UNITS. IN ORDER TO ENSURE THAT TSD UNITS WITHIN THE OPERABLE UNITS ARE BROUGHT INTO COMPLIANCE WITH RCRA AND STATE HAZARDOUS WASTE REGULATIONS, THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY) INTENDS, SUBJECT TO PART FOUR OF THE TRI-PARTY AGREEMENT, THAT ALL RESPONSE OR CORRECTIVE ACTIONS, EXCLUDING SITUATIONS WHERE THERE IS AN IMMINENT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT AS DESCRIBED IN SECTION 7.2.3, WILL BE CONDUCTED IN A MANNER WHICH ENSURES COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE HAZARDOUS WASTE MANAGEMENT ACT (HWMA) CHAPTER 70.105 RCW AND IMPLEMENTING REGULATIONS. NOTWITHSTANDING THIS OPERATING ASSUMPTION, ECOLOGY RESERVES THE RIGHT TO EXERCISE ITS AUTHORITY UNDER THE HWMA AND THE HANFORD SITEWIDE RCRA PERMIT, CONDITION II.Y TO REQUIRE GROUNDWATER RESPONSE ACTIONS CONSISTENT WITH WAC 173-303-645 AND/OR 173-303-646. THE MANAGEMENT OF PURGEWATER AND INVESTIGATION DERIVED WASTES FROM EXISTING WELLS AND WELLS UNDER THE REVISED M-24 TRI-PARTY AGREEMENT MILESTONES WILL BE MANAGED AS CERCLA WASTES IN ACCORDANCE WITH A CERCLA DECISION DOCUMENT OR SAMPLING AND ANALYSIS PLAN, TO BE DISPOSED AT ERDF AS LONG AS THE WASTES MEET ERDF DISPOSAL ACCEPTANCE CRITERIA. DOE SHALL INSTALL THE FOLLOWING MINIMUM NUMBER OF WELLS IN ACCORDANCE WITH THE PRIORITIES IDENTIFIED IN THE YEARLY DQO:</p> <ul style="list-style-type: none"> • A MINIMUM OF 15 WELLS BY 12/31/2003 • A CUMULATIVE OF 30 WELLS BY 12/31/2004 • A CUMULATIVE OF 45 WELLS BY 12/31/2005 	

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<ul style="list-style-type: none"> • A CUMULATIVE OF 60 WELLS BY 12/31/2006 • A CUMULATIVE OF 75 WELLS BY 12/31/2007 AND, • A CUMULATIVE OF 90 WELLS BY 12/31/2008 <p>MODIFICATION TO THE PRIORITY LIST WILL BE APPROVED AT THE PROJECT MANAGER'S LEVEL.</p> <p>(THIS MILESTONE WILL CONTINUE ON A YEARLY BASIS UNTIL SUCH TIME THAT THE PARTIES AGREE THAT SUFFICIENT RCRA AND CERCLA GROUNDWATER WELLS ARE IN PLACE AND OPERATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION.)</p> <p>EACH ELEMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-026-01Q	<p>SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH THE AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 4-1 OF THE PREVIOUS YEAR THROUGH 3-31 OF THE REPORTING YEAR.</p> <p>DOE'S ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT: 1) WILL BE EQUIVALENT TO (I.E., SHALL MEET ALL SUBSTANTIVE REQUIREMENTS OF) SITE TREATMENT PLANS AS REQUIRED BY THE FEDERAL FACILITY COMPLIANCE ACT OF 1992 (FFCA), AND 2) WILL MEET ALL REQUIREMENTS OF ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000.</p> <p>THE REPORT SHALL INCLUDE A DESCRIPTION OF ACTIVITIES PLANNED AND TAKEN IN ACCORDANCE WITH AGREEMENT REQUIREMENTS AND PRIOR ANNUAL LDR REPORTS TO ACHIEVE FULL COMPLIANCE WITH AGREEMENT AND LDR REQUIREMENTS. THE REPORT SHALL UPDATE ALL INFORMATION CONTAINED IN THE LDR PLAN AND THE PRIOR ANNUAL LDR REPORT, INCLUDING PLANS AND SCHEDULES.</p> <p>THE FORMAT FOR THE REPORT SHALL BE BASED ON EQUIVALENCY WITH SITE TREATMENT PLAN REQUIREMENTS OF THE FFCA, ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000, AND THE "REQUIREMENTS FOR HANFORD LDR PLAN," ISSUED BY EPA AND ECOLOGY ON APRIL 10, 1990. ADDITIONALLY, THE REPORT SHALL DESCRIBE ANY OTHER STUDIES OR EFFORTS THAT HAVE BEEN OR WILL BE UNDERTAKEN TO IDENTIFY ALTERNATIVES TO LAND DISPOSAL OF MIXED WASTES. THE NONRADIOACTIVE PORTION OF ANY MIXED WASTES THAT ARE REGULATED UNDER WASHINGTON STATE-ONLY REGULATIONS SHALL BE ADDRESSED IN THE REPORT. THE REPORT SHALL BE SUBMITTED AS A PRIMARY DOCUMENT.</p> <p>THE REPORT SHALL DOCUMENT AGREEMENT MAJOR AND INTERIM MILESTONES FOR ACHIEVING COMPLIANCE WITH LDR TREATMENT REQUIREMENTS AT TSD MIXED WASTE UNITS BY: 1) IDENTIFYING AND REPORTING PROGRESS AGAINST AGREEMENT MILESTONES, AND 2) PROPOSING THE ESTABLISHMENT OF MILESTONES IN THE INSTANCE OF</p>	04/30/2007

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	TSD MIXED WASTES NOT YET COVERED UNDER THE AGREEMENT, AND FOR THE MODIFICATION OF CURRENT HFFACO SCHEDULES AS NECESSARY TO ACHIEVE COMPLIANCE WITH LDR TREATMENT REQUIREMENTS IN A MANNER EQUIVALENT TO STPS AS REQUIRED BY THE FFCA. THESE MILESTONES SHALL BE BASED ON SIGNIFICANT EVENTS IDENTIFIED IN THE LDR REPORT (I.E., SCHEDULES EQUIVALENT TO THOSE OF SITE TREATMENT PLANS AS REQUIRED BY THE FFCA) AND WILL BE SHOWN AS SCHEDULES WHICH ARE UPDATED ANNUALLY AS PART OF THE REPORT. APPROPRIATE MILESTONES WILL BE INCORPORATED IN THE AGREEMENT VIA THE CHANGE PROCESS DEFINED IN SECTION 12 OF THE ACTION PLAN UPON ISSUANCE OF THE APPROVED REPORTS.	
M-026-01R	SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01Q FOR COMPLETE WORDING OF THIS MILESTONE)	04/30/2008 AND ANNUALLY THEREAFTER
M-026-07B	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2009
M-026-07C	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2014 AND EVERY 5 YEARS THEREAFTER
M-034-00A LEAD AGENCY: EPA	COMPLETE REMOVAL OF THE K BASINS AND THEIR CONTENT. NOTE: UNLESS OTHERWISE NOTED, THE TERM "K BASINS" IS USED TO DENOTE BOTH K EAST AND K WEST BASINS. THIS MILESTONE WILL BE COMPLETE WHEN BOTH K EAST AND K WEST BASINS, SPENT NUCLEAR FUEL, SLUDGE, DEBRIS AND WATER ARE REMOVED.	03/31/2009
M-034-30	INITIATE SLUDGE TREATMENT. THIS INTERIM MILESTONE WILL BE COMPLETE FOLLOWING TREATMENT AND PACKAGING OF THE FIRST UNIT OF SLUDGE INTO A FORM THAT IS CERTIFIABLE FOR DISPOSAL OFFSITE.	12/31/2008
M-034-31	COMPLETE SLUDGE TREATMENT. THIS INTERIM MILESTONE WILL BE COMPLETE FOLLOWING TREATMENT AND PACKAGING OF ALL SLUDGE FOR DISPOSAL OFFSITE.	11/30/2009
M-034-32	COMPLETE REMOVAL OF THE K EAST BASIN STRUCTURE. THIS INTERIM MILESTONE WILL BE COMPLETE WHEN SPENT NUCLEAR FUEL, SLUDGE, DEBRIS AND WATER ARE REMOVED FROM THE K EAST BASIN AND THE UPPER BUILDING AND CONCRETE BASIN ARE REMOVED.	03/31/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-034-33	CONTAINERIZE K EAST SLUDGE, ALL K EAST SLUDGE IS PLACED IN CONTAINERS. SLUDGE CONTAINERIZATION INITIATION (10/31/2004). SLUDGE CONTAINERIZATION COMPLETE (03/01/2005).	AS SPECIFIED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE
M-034-34	COMPLETE REMOVAL OF K EAST SLUDGE.	05/31/2007
M-034-35	CONTAINERIZE K WEST SLUDGE A) ALL K WEST BULK* SLUDGE IS PLACED IN CONTAINERS. B) COMPLETE FINAL PASS CLEAN UP. *BULK SLUDGE CONTAINERIZATION MEANS THAT A FIRST PASS WITH A VACUUM HAS BEEN COMPLETED TO REMOVE LARGE AMOUNTS OF SLUDGE; RACKS, AND DEBRIS HAVE BEEN REMOVED FROM THE AREA; ADDITIONAL VACUUMING HAS BEEN COMPLETED, AS NECESSARY, TO EXPOSE THE CONCRETE SURFACE OF THE BASIN LESS ANY REDEPOSITION OF SLUDGE THAT IS SUSPENDED IN THE BASIN WATER; AND DEBRIS HAS BEEN WASHED TO REMOVE SLUDGE FROM INTERNAL SPACES AND VISIBLE SURFACE SLUDGE.	A) 07/31/2007 B) 01/31/2008
M-035-00 LEAD AGENCY: DUAL	COMPLETE DATA MANAGEMENT ENHANCEMENTS AS NEGOTIATED AND APPROVED IN M-35-00 INTERIM MILESTONES.	To Be Determined
M-035-09F	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2008
M-035-09G	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2010 AND BIENNIALY THEREAFTER
M-035-09H	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2012 AND BIENNIALY THEREAFTER
M-042-00 LEAD AGENCY: ECOLOGY	PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.	To Be Determined
M-045-00 LEAD AGENCY: ECOLOGY	COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS. CLOSURE WILL FOLLOW RETRIEVAL OF AS MUCH TANK WASTE AS TECHNICALLY POSSIBLE, WITH TANK WASTE RESIDUES NOT TO EXCEED 360 CUBIC FEET (CU. FT.) IN EACH OF THE 100 SERIES TANKS, 30 CU. FT. IN EACH OF THE 200 SERIES TANKS, OR THE LIMIT OF WASTE RETRIEVAL TECHNOLOGY CAPABILITY, WHICHEVER IS LESS. IF THE DOE BELIEVES THAT WASTE RETRIEVAL TO THESE LEVELS IS NOT	09/30/2024

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>POSSIBLE FOR A TANK, THEN DOE WILL SUBMIT A DETAILED EXPLANATION TO EPA AND ECOLOGY EXPLAINING WHY THESE LEVELS CANNOT BE ACHIEVED, AND SPECIFYING THE QUANTITIES OF WASTE THAT THE DOE PROPOSES TO LEAVE IN THE TANK. THE REQUEST WILL BE APPROVED OR DISAPPROVED BY EPA AND ECOLOGY ON A TANK-BY-TANK BASIS. PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED ABOVE, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX H TO THE AGREEMENT.</p> <p>FOR THE PURPOSES OF THIS AGREEMENT ALL UNITS LOCATED WITHIN THE BOUNDARY OF EACH TANK FARM WILL BE CLOSED IN ACCORDANCE WITH WAC 173-303-610. THIS INCLUDES CONTAMINATED SOIL AND ANCILLARY EQUIPMENT THAT WERE PREVIOUSLY DESIGNATED AS RCRA PAST PRACTICE UNITS. ADOPTING THIS APPROACH WILL ENSURE EFFICIENT USE OF FUNDING AND WILL REDUCE POTENTIAL DUPLICATION OF EFFORT VIA APPLICATION OF DIFFERENT REGULATORY REQUIREMENTS: WAC 173-303-610 FOR CLOSURE OF THE TSD UNITS AND RCRA SECTION 3004(U) FOR REMEDIATION OF RCRA PAST PRACTICE UNITS.</p> <p>ALL PARTIES RECOGNIZE THAT THE RECLASSIFICATION OF PREVIOUSLY IDENTIFIED RCRA PAST PRACTICE UNITS TO ANCILLARY EQUIPMENT ASSOCIATED WITH THE TSD UNIT IS STRICTLY FOR APPLICATION OF A CONSISTENT CLOSURE APPROACH. UPGRADES TO PREVIOUSLY CLASSIFIED RCRA PAST PRACTICE UNITS TO ACHIEVE COMPLIANCE WITH RCRA OR DANGEROUS WASTE INTERIM STATUS TECHNICAL STANDARDS FOR TANK SYSTEMS (I.E., SECONDARY CONTAINMENT, INTEGRITY ASSESSMENTS, ETC.) WILL NOT BE MANDATED AS A RESULT OF THIS ACTION. HOWEVER, ANY EQUIPMENT MODIFIED OR REPLACED WILL MEET INTERIM STATUS STANDARDS. IN EVALUATING CLOSURE OPTIONS FOR SINGLE-SHELL TANKS, CONTAMINATED SOIL, AND ANCILLARY EQUIPMENT, ECOLOGY AND EPA WILL CONSIDER COST, TECHNICAL PRACTICABILITY, AND POTENTIAL EXPOSURE TO RADIATION. CLOSURE OF ALL UNITS WITHIN THE BOUNDARY OF A GIVEN TANK FARM WILL BE ADDRESSED IN A CLOSURE PLAN FOR THE SINGLE-SHELL TANKS.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-45 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-45 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0. COMPLETION OF THIS MAJOR MILESTONE REQUIRES THE COMPLETION OF THE WORK SCOPE IN ALL PRECEEDING MILESTONES AND TARGET DATES, UNLESS OTHERWISE AGREED TO BY THE PARTIES.</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	ALL WORK UNDER THIS MILESTONE M-45 SERIES SHALL BE CONDUCTED IN COMPLIANCE WITH AGREEMENT REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE PARTIES' AGREEMENT APPENDIX I, "SINGLE-SHELL TANK SYSTEM WASTE RETRIEVAL AND CLOSURE PROCESS".	
M-045-00B	<p>COMPLETE SPECIFIED "NEAR TERM" SST WASTE RETRIEVAL AND INTERIM CLOSURE ACTIVITIES, TO RESULT IN THE RETRIEVAL OF ALL TANK WASTES IN WMA-C SSTs PURSUANT TO THE AGREEMENT CRITERIA IN MILESTONE M-45-00.</p> <p>UNTIL THE WASTE TREATMENT COMPLEX IS OPERATIONAL, THE AMOUNT OF DST SPACE AVAILABLE TO RECEIVE SST WASTE IS LIMITED. THE NEAR TERM FOCUS FOR SST WASTE RETRIEVAL WILL INCLUDE MAXIMIZING THE TRANSFER OF CONTAMINANTS OF CONCERN (LONG-LIVED, MOBILE RADIONUCLIDES) INTO THE DST SYSTEM AND OPTIMIZING WASTE FEED SO AS TO MAINTAIN EFFICIENT WTP OPERATIONS. ADDITIONAL CRITERIA THAT WILL BE CONSIDERED IN TANK SELECTION AND MAY RESULT IN LOWER RISK TANKS BEING RETRIEVED EARLIER IN THE SEQUENCE, INCLUDE;</p> <ul style="list-style-type: none"> • WORKER SAFETY • FACILITATION OF WMA CLOSURES. • THE OPTIMIZATION OF DST SPACE UTILIZATION CONSIDERING RESOURCE LEVELING AND WASTE TRANSFER INFRASTRUCTURE • RETRIEVAL AND CLOSURE REQUIREMENTS FOR ASSOCIATED ANCILLARY EQUIPMENT. <p>WORK UNDER THIS MILESTONE INCLUDES:</p> <p>COMPLETION OF FOUR "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS, AND RETRIEVAL OF SUFFICIENT SST WASTE CONTAINING NO LESS THAN 800 CURIES OF CONTAMINANTS OF CONCERN AND OCCUPYING A MINIMUM OF 3 MILLION GALLONS OF DST SPACE. "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS WILL SEEK TO IMPROVE UPON PAST PRACTICE SLUICING (PPS) BASELINE TECHNOLOGY INCLUDING BUT NOT LIMITED TO RETRIEVAL EFFICIENCY, LEAK LOSS DURING RETRIEVAL, AND LEAK DETECTION MITIGATION AND MONITORING (LDMM).</p> <p>RETRIEVAL DEMONSTRATIONS SHALL BE CONDUCTED FOR 1) SALTCAKE DISSOLUTION (AT TANK S-112), 2) MODIFIED SLUICING (AT TANK C-106, 3) VACUUM RETRIEVAL (AT DOE'S C-200 SERIES TANKS), AND 4) MRS (ROBOTIC TECHNOLOGIES) + VACUUM RETRIEVAL AT TANK C-110,C-111,OR C-101 (WHICHEVER IS RETRIEVED FIRST).</p> <p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SLUDGE/HARD HEEL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS.</p> <p>INSTALLATION AND IMPLEMENTATION OF FULL SCALE EXTERNAL-TANK LEAK DETECTION, MONITORING, AND MITIGATION (LDMM)</p>	<p>09/30/2006 OR AS OTHERWISE INDICATED WITHIN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>TECHNOLOGIES FOR THE FIRST THREE 100-SERIES TANK RETRIEVALS FOLLOWING TANK S-112. THE BASELINE LDMM SYSTEM (I.E. DRYWELL LOGGING) IS TO BE SUPPLEMENTED, USING AN EXTERNAL-TANK ELECTRICAL RESISTIVITY (ER) METHOD. THE ELECTRICAL RESISTIVITY SYSTEM WILL BE DESIGNED FOR IMPLEMENTATION AT THE THREE TANKS AND FULLY DEPLOYED AT THE FIRST TANK TO BE RETRIEVED. CRITERIA FOR THE DEMONSTRATION AT THE FIRST TANK SHALL BE AGREED TO BY DOE AND ECOLOGY BEFORE THE TECHNOLOGY IS INSTALLED.</p> <ul style="list-style-type: none"> • DOE WILL SUBMIT FOR ECOLOGY APPROVAL A TEST PLAN INCLUDING AN INJECTION TEST, DESCRIBING THE CRITERIA AND METHOD TO TEST THE SELECTED ER. 90 DAYS AFTER THE COMPLETION OF THE TESTING, DOE WILL SUBMIT AN EVALUATION REPORT AND ANY RECOMMENDATION FOR FURTHER DEPLOYMENT. • IF THE PARTIES AGREE THAT THE METHOD IS SUITABLE, ER WILL BE DEPLOYED IN THE SUBSEQUENT APPROPRIATE RETRIEVAL TANKS. • IF THE PARTIES DO NOT AGREE THAT ER IS SUITABLE FOR SUBSEQUENT RETRIEVALS, OR IF THE DATA IS INCONCLUSIVE, ECOLOGY WILL REQUIRE APPLICATION AND/OR DEVELOPMENT OF APPROPRIATE LDMM TECHNOLOGY IN LIEU OF OR IN ADDITION TO ER. • SUBMITTAL AS AGREEMENT PRIMARY DOCUMENTS, TANK WASTE RETRIEVAL WORK PLANS FOR TANKS C-101, C-102, C-103, C-104, C-105, C-107, C-108, C-109, C-110, C-111, C-112, C-201, C-202, C-203, AND C-204 <ul style="list-style-type: none"> ○ TANKS C-201, C-202, C-203 AND C-204, (PROVIDE SUPPLEMENTAL INFORMATION BY MARCH 31, 2004 TO INCLUDE START OF RETRIEVAL DATE AS PER APPENDIX I REQUIREMENTS). ○ DOE SHALL SUBMIT TWRWP(S) FOR 2 100-SERIES TANKS BY JULY 31, 2004. ○ DOE SHALL SUBMIT TWRWP(S) FOR 4 100-SERIES TANKS BY OCTOBER 31, 2004. ○ DOE SHALL SUBMIT TWRWP(S) FOR 5 100-SERIES TANKS BY JANUARY 31, 2005. • SUBMITTAL TO ECOLOGY OF CERTIFIED COMPONENT CLOSURE ACTIVITY PLANS FOR THE PRECEDING SSTs IN ACCORDANCE WITH AGREEMENT APPENDIX I. • SUBMITTAL OF WMA INTEGRATION PLANS FOR WMA-C AND ONE ADDITIONAL WMA BY JUNE 30, 2005. <p>THE SELECTION OF ADDITIONAL SSTs FOR WASTE RETRIEVAL SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AGREEMENT APPENDIX I, SECTION 2.1.2.</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>IN ADDITION TO THE PRECEDING, DOE WILL PROCESS A BASELINE CHANGE CONTROL, AND ASSOCIATED WORK DIRECTIVES AS MAY BE NECESSARY, CONSISTENT WITH THIS AGREEMENT AND THE PARTIES' MILESTONE M-45-04-01 CHANGE REQUEST NO LATER THAN SEPTEMBER 30, 2004.</p> <p>PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED WITHIN THE ASSOCIATED MILESTONES, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX "H" TO THIS AGREEMENT.</p>	
M-045-00C	<p>INITIATE NEGOTIATION OF SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES AND ASSOCIATED SCHEDULES (FOR THE PERIOD FEBRUARY 2007 THROUGH AUGUST 2008).</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE's SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVALS, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT, 7.) SCHEDULES FOR WMA ANCILLARY EQUIPMENT WASTE RETRIEVAL AND CLOSURE, 8.) OTHER ACTIVITIES AS MAY BE NECESSARY TO SUPPORT WMA CLOSURES, AND 9.) ACQUISITION OF ADDITIONAL COMPLIANT STORAGE SPACE, E.G., NEW DSTs, IF NEEDED.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 120 DAYS. IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 150 DAYS OF INITIATION OF NEGOTIATIONS.</p>	09/30/2006

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-00D	<p>INITIATE NEGOTIATION OF THE SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES FOR THE PERIOD SEPTEMBER 2008 TO SEPTEMBER 2013.</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., PHASE I RFI REPORTS OF ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-55), CORRECTIVE MEASURES STUDIES FOR ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-56, DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE's SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVAL SEQUENCE, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT, 7.) SCHEDULES FOR WMA ANCILLARY EQUIPMENT WASTE RETRIEVAL AND CLOSURE, 8.) OTHER ACTIVITIES AS MAY BE NECESSARY TO SUPPORT WMA CLOSURES, AND 9.) ACQUISITION OF ADDITIONAL COMPLIANT STORAGE SPACE, E.G., NEW DSTs, IF NEEDED.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTE INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON USING THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 150 DAYS. IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 180 DAYS OF INITIATION OF NEGOTIATIONS.</p>	01/31/2008
M-045-00E	<p>INITIATE NEGOTIATION OF SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES FOR THE REMAINDER OF THE SST PROGRAM.</p> <p>THESE NEGOTIATIONS WILL ESTABLISH REGULATORY REQUIREMENTS FOR THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM (THROUGH COMPLETION OF CLOSURE AT ALL SST WMAs). NEGOTIATIONS WILL INCLUDE MODIFICATION AS MAY BE NECESSARY OF</p>	10/31/2012

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>COMPLETION DATES FOR SST WASTE RETRIEVAL AND SST WMA CLOSURE BASED ON EXPERIENCE GAINED FROM PHASE I RFI REPORTS OF ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-55), CORRECTIVE MEASURES STUDIES FOR ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-56), DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE's SSTs.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE CRITERIA OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 120 DAYS. IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 150 DAYS OF INITIATION OF NEGOTIATIONS.</p>	
M-045-02N	<p>SUBMIT BIENNIAL UPDATES TO SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION.</p> <p>THIS PROVIDES FOR A BIENNIAL UPDATE OF A SST RETRIEVAL SEQUENCE DOCUMENT THAT WILL DEFINE THE TANK RETRIEVAL SEQUENCE, SELECTION CRITERIA AND, RATIONALE, REFERENCE RETRIEVAL METHOD(S) FOR EACH TANK, AND THE ESTIMATED RETRIEVAL SCHEDULES. THE RETRIEVAL SEQUENCE DOCUMENT WILL LIST RETRIEVAL METHODOLOGIES TO BE EMPLOYED AND ESTIMATED WASTE VOLUMES TO BE GENERATED DURING RETRIEVAL (TO BE TRANSFERRED TO THE DST'S OR OTHER AVAILABLE SAFE STORAGE). THE REPORT WILL ALSO LIST TANK SELECTION RATIONALE BASED ON THE PRIMARY OBJECTIVE OF MAXIMIZING RISK REDUCTION THROUGH THE RETRIEVAL OF MOBILE, LONG-LIVED RADIONUCLIDES OR POTENTIAL AIRBORNE CONTAMINANTS AND PRINCIPLE NON RADIOLOGICAL HAZARDOUS CONSTITUENTS IN A MANNER WHICH IS SENSITIVE TO WASTE TREATMENT FACILITY REQUIREMENTS AND INFRASTRUCTURE CONSTRAINTS. THE SEQUENCING WILL ALSO TAKE IN CONSIDERATION DST SPACE AND DST WASTE COMPATABILITY WHEN SELECTING THE SST RETRIEVAL SEQUENCE. TANK SELECTION FOR RETRIEVAL WILL TAKE INTO CONSIDERATION THE CLOSURE OF WASTE</p>	03/01/2008

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>MANAGEMENT AREAS AND RESOURCE OPTIMIZATION. THE BIENNIAL UPDATES WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL AS AGREEMENT PRIMARY DOCUMENTS.</p> <p>THIS ALSO PROVIDES FOR A BIENNIEL UPDATE OF THE DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT. THIS NEW MILESTONE REPLACED MILESTONE M-31-02 AND SUBSEQUENTLY M-46-00K, M-46-00L, AND M-46-00M, ETC. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON A BIENNIAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION. ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. WITHIN 60 DAYS OF RECEIVING THE DST TANK SPACE EVALUATION DOCUMENT, THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.</p>	
M-045-02O	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. (SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2010
M-045-02P	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. (SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2012
M-045-02Q	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.(SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2014
M-045-02R	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2016
M-045-02S	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2018 AND BIENNIALLY THEREAFTER
M-045-05	RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS. COMPLETE WASTE RETRIEVAL FROM ALL REMAINING SINGLE-SHELL TANKS. RETRIEVAL STANDARDS AND COMPLETION DEFINITIONS ARE PROVIDED UNDER THE MAJOR MILESTONE. THE SCHEDULE REFLECTS	09/30/2018

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	RETRIEVAL ACTIVITIES ON A FARM-BY-FARM BASIS. IT ALSO ALLOWS FLEXIBILITY TO RETRIEVE TANKS FROM VARIOUS FARMS IF DESIRED TO SUPPORT SAFETY ISSUE RESOLUTION, PRETREATMENT OR DISPOSAL FEED REQUIREMENTS, OR OTHER PRIORITIES.	
M-045-05-T05	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2007
M-045-05-T06	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2008
M-045-05-T07	INITIATE TANK RETRIEVAL FROM SEVEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2009
M-045-05-T08	INITIATE TANK RETRIEVAL FROM EIGHT ADDITIONAL SINGLE-SHELL TANKS.	09/30/2010
M-045-05-T09	INITIATE TANK RETRIEVAL FROM TEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2011
M-045-05-T10	INITIATE TANK RETRIEVAL FROM 12 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2012
M-045-05-T11	INITIATE TANK RETRIEVAL FROM 14 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2013
M-045-05-T12	INITIATE TANK RETRIEVAL FROM 17 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2014
M-045-05-T13	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2015
M-045-05-T14	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2016
M-045-05-T15	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2017
M-045-05A	<p>COMPLETE WASTE RETRIEVAL FROM TANK S-102.</p> <p>THE S-102 WASTE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) WILL BE SELECTED BASED ON THE PRINCIPLE CRITERIA OF MAXIMIZING THE RETRIEVAL OF MOBILE, LONG-LIVED RADIOISOTOPES AND NON-RADIOLOGICAL HAZARDOUS CONSTITUENTS. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR WASTE RETRIEVAL PURPOSES. RETRIEVAL SHALL BE PERFORMED IN ACCORDANCE WITH GOALS AND CRITERIA SPECIFIED IN M-45-00.</p> <p>COMPLETION OF S-102 WASTE RETRIEVAL IS SUBJECT TO SAFE STORAGE SPACE AVAILABILITY CONSISTENT WITH M-45-00B.</p>	03/31/2007
M-045-06	COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS IN ACCORDANCE WITH APPROVED CLOSURE/POST CLOSURE PLAN(S).	09/30/2024

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-06-T03	INITIATE CLOSURE ACTIONS ON A WMA BASIS. CLOSURE SHALL FOLLOW COMPLETION OF THE RETRIEVAL ACTIONS UNDER PROPOSED MILESTONE M-45-05. CLOSURE WILL BE DEFINED IN AN APPROVED CLOSURE PLAN FOR THE DEMONSTRATION FARM. FINAL CLOSURE IS DEFINED AS ECOLOGY ACCEPTANCE OF DOE'S CERTIFICATION OF COMPLETION OF CLOSURE.	03/31/2012
M-045-06-T04	COMPLETE CLOSURE ACTIONS ON ONE WMA.	03/31/2014
M-045-13	<p>INTERIM COMPLETION OF TANK S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none">1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.3. THE S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.	12/31/2007
M-045-15	<p>INTERIM COMPLETION OF TANK S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none">1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-102 INITIAL WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.3. THE S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION	12/31/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</p> <p>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</p>	
M-045-55	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A PHASE 1 RFI REPORT INTEGRATING RESULTS OF DATA GATHERING ACTIVITIES AND EVALUATIONS FOR ALL SST WMAS, INCLUDING GROUNDWATER MONITORING AND IMPACTS ASSESSMENT USING HANFORD SITE GROUNDWATER MODELS, WITH CONCLUSIONS AND RECOMMENDATIONS. RESULTS FROM WMAS A-AX AND C WILL BE INCLUDED AS APPENDICES TO THE RFI ROLLUP REPORT ADDRESSING THE SST WMAS UNDER RCRA CORRECTIVE ACTION, SO THAT A SINGLE DOCUMENT CONTAINS ALL AVAILABLE INFORMATION FOR THE 200 AREA SST WMAS AND WILL SUPPORT SST RETRIEVAL AND CLOSURE.	01/31/2007
M-045-55-T04	SUBMIT TO ECOLOGY FOR REVIEW AND COMMENT A DRAFT FIELD INVESTIGATION REPORT COMBINING THE RESULTS OF FIELD INVESTIGATIONS AND ANALYSIS FOR WMAS A-AX, C & U PURSUANT TO THE SITE-SPECIFIC SST WMA PHASE 1 RFI/CMS WORK PLAN ADDENDA FOR WMA A-AX, C AND U.	04/30/2006
M-045-56	<p>COMPLETE IMPLEMENTATION OF AGREED-TO INTERIM MEASURES.</p> <p>SPECIFIC INTERIM MEASURES WILL BE IMPLEMENTED PURSUANT TO AGREEMENT COMMITMENTS (E.G., SEE INTERIM MILESTONE M-45-57). INTERIM MEASURES MAY ALSO BE REQUIRED BY ECOLOGY, PROPOSED BY DOE IN THE SST WMA RFI REPORT (M-45-55) (OR ENGINEERING STUDIES INCLUDING THAT ADDRESSED IN TARGET MILESTONE M-45-56-T01), OR ESTABLISHED BY AGREEMENT OF THE PARTIES AT ANY TIME DURING THE CORRECTIVE ACTION PROCESS. ALSO SEE TABLE 1 OF AGREEMENT CHANGE CONTROL FORM #M-45-98-03.</p> <p>ECOLOGY AND DOE AGREE, AT A MINIMUM, TO MEET YEARLY (BY JULY OR AS NEEDED TO SUPPORT ANNUAL BUDGETING) FOR THE SPECIFIC PURPOSE OF ASSESSING THE ADEQUACY OF INFORMATION, AND THE NEED FOR THE ESTABLISHMENT OF ADDITIONAL AGREEMENT INTERIM MEASURES. ADDITIONAL AGREEMENT INTERIM MEASURES SHALL BE DOCUMENTED THROUGH ESTABLISHMENT OF INTERIM MILESTONES AND ASSOCIATED TARGET DATES AS AGREED NECESSARY BY THE PARTIES.</p>	To Be Determined
M-045-58	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A CORRECTIVE MEASURES STUDY FOR INTERIM CORRECTIVE MEASURES FOR ALL SST WMA's (PENDING RESULTS AND CONCLUSIONS IN THE PHASE 1 RFI REPORT-MILESTONE M-45-55 OR SUBSEQUENT RFI REPORTS).	06/30/2007
M-045-59	CONTROL SURFACE WATER INFILTRATION PATHWAYS AS NEEDED TO CONTROL OR SIGNIFICANTLY REDUCE THE LIKELIHOOD OF MIGRATION OF SUBSURFACE CONTAMINATION TO GROUNDWATER AT THE SST WMAS (PENDING THE CMS REPORT, MILESTONE M-45-58, AND IMPLEMENTATION OF OTHER INTERIM CORRECTIVE MEASURES.	To Be Determined

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DECISIONS ON CONTROLLING SURFACE WATER INFILTRATION PATHWAYS WILL BE MADE BY EVALUATING THE ROLE OF SURFACE WATER INFILTRATION AND THE TRANSPORT OF SUBSURFACE CONTAMINATION TO GROUNDWATER. BASED ON THE CORRECTIVE MEASURES STUDY (M-45-58) INTERIM SURFACE BARRIERS AND/OR OTHER INFILTRATION CONTROLS MAY BE REQUIRED.	
M-045-60	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT DOE'S RFI/CMS WORK PLAN FOR ALL SST WMAS. THIS RFI/CMS WORK PLAN SHALL DOCUMENT THE ADDITIONAL INTERIM MEASURES AND FURTHER INVESTIGATIONS NEEDED FOR DECISIONS ON RETRIEVAL, CLOSURE, AND CORRECTIVE MEASURES FOR ALL SST WMAS.	09/30/2007
M-047-00	DOE, AND ASSOCIATED CONTRACTORS SHALL COMPLETE ALL WORK NECESSARY IN SUPPORT OF THE ACQUISITION AND OPERATION OF HANFORD SITE HIGH-LEVEL RADIOACTIVE TANK WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES. WORK INCLUDED UNDER THIS MILESTONE SERIES SHALL INCLUDE BUT IS NOT LIMITED TO WORK NECESSARY TO: (1) PROVIDE TIMELY TANK WASTE FEED TO TANK WASTE TREATMENT FACILITIES, (2) PROVIDE ADEQUATE DOUBLE-SHELL TANK (DST) SPACE, (3) PROVIDE NECESSARY INFRASTRUCTURE INCLUDING SOLID WASTE SERVICES AND SECONDARY WASTE TREATMENT (E.G., TANK WASTE TREATMENT FACILITY LIQUID EFFLUENTS). SEE ALSO MILESTONE SERIES M-90-00. THE PARTIES WILL REVISE OR CONFIRM THE DUE DATES FOR MILESTONES M-47-01, M-47-02, M-47-03, M-47-03A, M-47-04, M-47-05 AND M-47-05A WITHIN SIX (6) MONTHS OF AUTHORIZATION TO PROCEED (SEE MILESTONE M-62-04). REVISION, IF NECESSARY, SHALL BE CONSISTENT WITH COMPLETION OF HOT COMMISSIONING BY 1/31/2011, AND COMPLETION OF THE PRETREATMENT AND VITRIFICATION OF NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS AND 25% BY ACTIVITY BY 2/28/2018. COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-47 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-47 MAJOR AND INTERIM MILESTONE REQUIREMENTS. DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.	02/28/2018
M-047-02	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST HIGH-LEVEL WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX.	03/31/2009
M-047-03A	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL HIGH-LEVEL WASTE FEED TANK.	03/31/2009

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-047-04	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST LOW-ACTIVITY WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX. INSTALLATION OF THE PUMP WILL NOT BE REQUIRED UNTIL NECESSARY TO SUPPORT WTP WASTE FEED ACTIVITIES.	03/31/2009
M-047-06	COMPLETE NEGOTIATION OF ADDITIONAL AGREEMENT REQUIREMENTS (MILESTONES, TARGET DATES, AND ASSOCIATED LANGUAGE) GOVERNING WORK NECESSARY TO SUPPORT COMPLETION OF TREATMENT COMPLEX OPERATIONS BY 2018.	06/30/2010
M-048-00	COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES FOR HANFORD'S DOUBLE SHELL TANK (DST) SYSTEM. COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES AS SET FORTH IN INTERIM MILESTONES ESTABLISHED UNDER THIS MAJOR MILESTONE.	09/30/2007
M-048-07A	COMPLETE CONSTRUCTION OF THE AZ-301 CONDENSATE RETURN SYSTEM AND PIT UPGRADES. THIS INCLUDES: 1) COMPLETE CONSTRUCTION OF THE AZ-301 CONDENSATE RETURN SYSTEM AND REMOVE THE AZ-151 CATCH TANK SYSTEM FROM SERVICE BY OCTOBER 31, 2005; 2) COMPLETION OF CONSTRUCTION FOR THE 241-AP-106A CENTRAL PUMP PIT UPGRADE (REMOVE EXISTING EQUIPMENT, EVALUATE PIT INTEGRITY, AND REPLACE PIT COATING, IF NECESSARY) BY MARCH 31, 2006; 3) COMPLETION OF CONSTRUCTION FOR THE 241-SY-B VALVE PIT UPGRADE (REMOVE EXISTING EQUIPMENT, EVALUATE PIT INTEGRITY, AND REPLACE PIT COATING, IF NECESSARY) BY JUNE 30, 2006. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THIS AGREEMENT.	06/30/2006 OR AS OTHERWISE INDICATED WITHIN THE DESCRIPTIVE TEXT OF THIS MILESTONE
M-048-15	SUBMIT A REPORT TO ECOLOGY FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING. SUBMIT A WRITTEN REPORT FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING IN ALL AREAS PREVIOUSLY EXAMINED TO PROVIDE COMPARATIVE DATA FROM WHICH TO CALCULATE CORROSION RATES IN EACH OF THE SIX (6) DST'S EXAMINED. TANKS SELECTED FOR EXAMINATION WILL BE RECOMMENDED BY USDOE AND WILL BE SUBJECT TO APPROVAL BY ECOLOGY. THE SELECTION OF EACH DST TO BE RE-EXAMINED SHALL CONSIDER ELAPSED TIME FROM PREVIOUS ULTRASONIC TESTING, SUFFICIENT TO ASSESS MEASURABLE WALL THINNING WITH THE ULTRASONIC EQUIPMENT USED. RE-EXAMINATION OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL MAY NOT BE REQUIRED, IF PRIOR APPROVAL IS OBTAINED FROM ECOLOGY FOR DELETING THIS PORTION OF THE ULTRASONIC RE-EXAMINATION. THIS REPORT SHALL PROVIDE A CALCULATED CORROSION RATE FOR EACH DST, INCLUDE ALL CALCULATIONS, INCLUDE A THOROUGH DESCRIPTION OF ALL TERMS AND/OR FACTORS USED IN THE CALCULATIONS, AND INCLUDE A THOROUGH REFERENCE SECTION OF ALL CODES, STUDIES AND	09/30/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	ASSUMPTIONS, USED IN DERIVING THE CALCULATED CORROSION RATE FOR EACH OF THE DST'S SELECTED.	
M-050-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT PROCESSING OF HANFORD TANK WASTE.	12/31/2028
M-051-00 LEAD AGENCY: ECOLOGY	COMPLETE VITRIFICATION OF HANFORD HIGH LEVEL TANK WASTE.	12/31/2028
M-061-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT AND IMMOBILIZATION OF HANFORD LOW ACTIVITY WASTE (LAW).	12/31/2028
M-062-00	<p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HIGH LEVEL (HLW) AND LOW ACTIVITY (LAW) TANK WASTES.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-62 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-62 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	12/31/2028
M-062-00A	<p>COMPLETE WTP PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HLW AND LAW TANK WASTES.</p> <p>TANK WASTE PROCESSING SHALL COMPLETE THE WTP PRETREATMENT AND VITRIFICATION OF NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS* AND 25% BY ACTIVITY.</p> <p>*[IN MEETING THIS REQUIREMENT DOE WILL PRETREAT AND VITRIFY NO LESS THAN 6000 METRIC TONS OF SODIUM (IN THE INSTANCE OF LAW FEED) AND 800 METRIC TONS OF WASTE OXIDES (IN THE INSTANCE OF HLW FEED)]</p>	02/28/2018
M-062-01M	<p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE's MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA's REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF</p>	07/31/2006

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	
M-062-01N	<p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.</p>	01/31/2007
M-062-01O	<p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL</p>	07/31/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	
M-062-01P	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT. DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	01/31/2008 SEMI- ANNUALLY BEGINNING JULY 31, 2000
M-062-03	SUBMIT DOE PETITION FOR RCRA DELISTING OF VITRIFIED HLW.	12/31/2006

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DOE WILL SUBMIT ITS PETITION FOR DELISTING OF THE IMMOBILIZED HIGH-LEVEL WASTE (HLW) FROM THE WASTE TREATMENT PLANT FROM RCRA AND THE WASHINGTON STATE HWMA (DELISTING PETITION) IN ACCORDANCE WITH 40 CFR 260.22 AND WAC 173-303-072.	
M-062-07B	<p>COMPLETE ASSEMBLY OF LOW ACTIVITY WASTE VITRIFICATION FACILITY MELTER #1 SO THAT IT IS READY FOR TRANSPORT AND INSTALLATION IN THE LAW VITRIFICATION BUILDING (BNI BASELINE SCHEDULE ACTIVITY 4DL321A200 AS PART OF DOE CONTRACT NO. DE-AC27-01RV14136), AND COMPLETE SCHEDULE ACTIVITY ID 4DH46102A2-MOVE #1 MELTER INTO THE HIGH LEVEL WASTE VITRIFICATION FACILITY.</p> <p>THIS MILESTONE REPRESENTS 1) THE ASSEMBLY OF LAW MELTER #1 TO THE POINT IT IS READY FOR REFRACTORY AS PART OF BNI BASELINE ACTIVITIES 3EL3212A00 SPECIFICATIONS AND ANALYSIS, 4DL321A000 LAW - PROCURE MATERIAL & EQUIPMENT FOR MELTERS AND 4DL321A200 LAW- ASSEMBLE MELTER #1 (CONTRACT NO. DE-AC27-01RV14136). IN ADDITION, ACTIVITIES 4DL121U100 LAW - ELEV +3 SOUTH MELTER FREP AND 4DL131D000 LAW - ELEV +28 COLUMNS, BEAMS & Q-DECKING AT +48 SHALL BE SUBSTANTIALLY COMPLETED, 2) MOVING THE FIRST HLW MELTER INTO THE HLW FACILITY AS DEFINED IN BNI BASELINE ACTIVITIES ID 4DH46102A2.</p> <p>COMPLETION OF THIS MILESTONE WILL BE MET WHEN 1) LAW MELTER #1 WILL HAVE BEEN FULLY FABRICATED, ASSEMBLED AND READY FOR REFRACTORY MATERIAL TO BE INSTALLED. ASSEMBLY OF THE MELTER IS SCHEDULED TO OCCUR NEAR THE END OF LAW CONSTRUCTION WHEN THE FACILITY IS MOST READY TO HAVE THE ASSEMBLED MELTER MOVED INTO THE LAW CELL WHERE THE REFRACTORY MATERIAL WILL BE INSTALLED. MEETING THIS MILESTONE THEREFORE REPRESENTS SIGNIFICANT ACCOMPLISHMENT OF THE ENGINEERING, DESIGN AND CONSTRUCTION OF THE LAW FACILITY; AND 2) HLW MELTER #1 HAS BEEN FULLY FABRICATED AND MOVED INTO THE HLW VITRIFICATION FACILITY.</p>	12/31/2007
M-062-08	<p>SUBMITTAL OF HANFORD TANK WASTE SUPPLEMENTAL TREATMENT TECHNOLOGIES REPORT, DRAFT HANFORD TANK WASTE TREATMENT BASELINE AND DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP).</p> <p>DOE WILL SUBMIT A SUPPLEMENTAL TREATMENT TECHNOLOGIES REPORT THAT DESCRIBES THE TECHNICAL, FINANCIAL, AND CONTRACTUAL ALTERNATIVES WHICH IN COMBINATION WITH THE WTP AND ANY REQUIRED ADDITIONAL LAW VITRIFICATION FACILITIES, ARE NEEDED TO TREAT ALL OF HANFORD'S TANK WASTES. THE REPORT WILL IDENTIFY AND DESCRIBE VIABLE PATH(S) FORWARD TO COMPLETE TREATMENT OF ALL TANK WASTES BY 12/31/2028. THE REPORT SHALL APPLY THE SAME SELECTION CRITERIA TO ALL OPTIONS AND INCLUDE THE 2ND LAW VITRIFICATION FACILITY AS AN OPTION. THE REPORT WILL INCLUDE: THE RESULTS OF ALL WASTE FORM PERFORMANCE DATA (COMPARED AGAINST THE PERFORMANCE OF BOROSILICATE GLASS) FOR ALL THE TREATMENT TECHNOLOGIES BEING CONSIDERED; PERFORMANCE DATA WILL BE ADEQUATE TO MAKE DECISIONS AS TO THE</p>	06/30/2006

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ACCEPTABILITY OF ANY PROPOSED WASTE FORM FOR THE WASTE BEING CONSIDERED, AND DESCRIPTION OF THE CONSIDERED TREATMENT TECHNOLOGIES (INCLUDING SIZE, THROUGHPUT, TECHNICAL VIABILITY, AND LIFE CYCLE COST ESTIMATES).</p> <p>THIS REPORT WILL ALSO INCLUDE A DISCUSSION OF WASTE TREATMENT PLANT THROUGHPUT COMMITMENTS AND THE REALISTIC POTENTIAL FOR ENHANCING THE THROUGHPUT OF CURRENTLY PLANNED MELTERS, PROPOSED ADDITIONAL MELTERS AND POTENTIAL SECOND GENERATION MELTERS INSTALLED AT FIRST MELTER CHANGE OUT.</p> <p>THE DRAFT BASELINE WILL CONTAIN DOE'S PROPOSED APPROACH FOR TREATING ALL HANFORD TANK WASTES (HLW, LAW, AND TRU) BY 12/31/2028 INCLUDING LIFE CYCLE COST ESTIMATES THAT INDICATE PROJECTED FUNDING REQUIREMENTS THROUGH COMPLETION OF THE RIVER PROTECTION PROJECT MISSION, A SCHEDULE FOR CONSTRUCTION AND OPERATION OF PROPOSED NEW FACILITIES AND/OR ENHANCEMENTS TO THE WTP, AND PROJECTED THROUGHPUT FOR EACH FACILITY.</p> <p>THE REPORT AND BASELINE WILL BE ACCOMPANIED BY A DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP) AND DRAFT AGREEMENT CHANGE REQUEST CONTAINING MILESTONES AND ASSOCIATED AGREEMENT REQUIREMENTS SUFFICIENT TO EFFECTIVELY DRIVE ALL REQUIRED WORK, INCLUDING BUT NOT LIMITED TO: 1) THE ESTABLISHMENT OF REQUIREMENTS REGARDING ANY NECESSARY WTP MODIFICATION(S), 2) THE ESTABLISHMENT OF REQUIREMENTS SCHEDULING THE ACQUISITION AND OPERATION OF ANY APPROVED TREATMENT TECHNOLOGY SYSTEMS , 3) THE ESTABLISHMENT OF PRODUCTION METRICS FOR TREATMENT COMPLEX (WTP PLUS ANY SUPPLEMENTAL TREATMENT SYSTEM OR SECOND LAW VITRIFICATION FACILITY) CONSISTENT WITH COMPLETION OF TREATMENT BY 12/31/2028, 4) THE ESTABLISHMENT OF REQUIREMENTS SCHEDULING ACQUISITION AND OPERATION OF FEED DELIVERY SYSTEMS FOR ANY APPROVED SUPPLEMENTAL TECHNOLOGY (M-47 MILESTONES). THE AIP WILL BE FINALIZED WITHIN 30 DAYS OF SUBMITTAL AND PROVIDE THAT NEGOTIATIONS WILL BE COMPLETED WITHIN ONE HUNDRED AND EIGHTY (180) DAYS OF AIP FINALIZATION, AND WILL PROVIDE THAT, IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF A DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE PARTIES, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN SEVEN MONTHS OF AIP FINALIZATION.</p>	
M-062-09	<p>START COLD COMMISSIONING - WASTE TREATMENT PLANT.</p> <p>DOE WILL START COLD COMMISSIONING OF ITS TANK WASTE TREATMENT PLANT. START OF COLD COMMISSIONING IS DEFINED AS INTRODUCTION OF FIRST FEED SIMULANT INTO A PROCESS BUILDING.</p>	02/28/2009
M-062-10	<p>COMPLETE HOT COMMISSIONING - WASTE TREATMENT PLANT.</p> <p>DOE WILL ACHIEVE SUSTAINED THROUGHPUT OF PRETREATMENT, LOW-</p>	01/31/2011

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	ACTIVITY WASTE VITRIFICATION AND HIGH-LEVEL WASTE VITRIFICATION PROCESSES, AND DEMONSTRATE WTP TREATMENT COMPLEX AVAILABILITY TO COMPLETE TREATMENT OF NO LESS THAN 10% OF THE TANK WASTE BY MASS AND 25% OF THE TANK WASTE BY ACTIVITY BY DECEMBER 2018.	
M-062-11	SUBMIT A FINAL HANFORD TANK WASTE TREATMENT BASELINE. FOLLOWING THE COMPLETION OF NEGOTIATIONS REQUIRED IN M-62-08, DOE WILL MODIFY ITS DRAFT BASELINE AS REQUIRED AND SUBMIT ITS REVISED, AGREED-TO, BASELINE FOR TREATING ALL HANFORD TANK WASTE (HLW, LAW, AND TRU) BY 12/31/2028.	06/30/2007
M-081-00A LEAD AGENCY: ECOLOGY	COMPLETE FFTF FACILITY TRANSITION AND INITIATE THE SURVEILLANCE AND MAINTENANCE PHASE. COMPLETION OF FFTF TRANSITION WILL INCLUDE, BUT IS NOT LIMITED TO THE COMPLETION OF: 1) DRY CASK STORAGE OF IRRADIATED FUEL, 2) DRY STORAGE OF UNIRRADIATED AND SODIUM BONDED FUEL, 3) SODIUM DRAIN AND STORAGE 4) DEACTIVATION OF THE AUXILIARY PLANT SYSTEMS. WORK UNDER THIS MAJOR MILESTONE WILL BE ACHIEVED BY COMPLETING ALL ACTIVITIES NECESSARY TO ACHIEVE THE END POINT CRITERIA FOR PLACING THE FACILITY IN A SAFE AND STABLE SURVEILLANCE AND MAINTENANCE CONFIGURATION.	2/28/2011
M-081-00A-T04 See Note	COMPLETE TRANSFER OF SPECIAL FUEL TO DOES IDAHO NATIONAL ENGINEERING LABORATORY FOR CONSOLIDATED STORAGE. SODIUM-BONDED IRRADIATED METAL AND CARBIDE FUEL FROM ASSEMBLIES CLEANED IN THE IEM CELL WILL BE LOADED INTO EXISTING, APPROVED SHIPPING CASKS, AND TRANSPORTED TO THE IDAHO NATIONAL ENGINEERING LABORATORY (INEEL, ANL-W) IN IDAHO FALLS, IDAHO, FOR CONSOLIDATED STORAGE. SHOULD THE INEEL, ANL-W FACILITY NOT BE READILY AVAILABLE, SODIUM BONDED FUEL WILL BE LOADED IN INTERIM STORAGE CASKS AND TRANSFERRED TO A STORAGE LOCATION ON THE HANFORD SITE (E.G., 200 OR 400 AREA INTERIM STORAGE AREAS). ONE UNIRRADIATED METAL FUEL ASSEMBLY WILL ALSO BE DISPOSITIONED IN A SIMILAR MANNER. NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.	3/31/2009
M-081-00A-T05	COMPLETE AUXILIARY PLANT SYSTEMS DEACTIVATION. A MAJOR PORTION OF THE PLANT AUXILIARY SYSTEMS ARE REQUIRED TO SUPPORT HOT SODIUM CIRCULATION PRIOR TO DRAINING THE	2/28/2011

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	SODIUM. AS THESE SYSTEMS, AND THE BALANCE OF PLANT SYSTEMS, BECOME AVAILABLE FOR SHUTDOWN, THEY WILL BE DEACTIVATED TO A SAFE, STABLE CONDITION.	
M-081-10-T01	SUBMIT FINAL SODIUM DISPOSITION EVALUATION REPORT THE OFFICE OF RIVER PROTECTION WILL USE THE HANFORD SITE RADIOACTIVE SODIUM INVENTORY (I.E., FFTF, HALLAM AND SRE SODIUM FOLLOWING CONVERSION TO SODIUM HYDROXIDE) IN THE WASTE TREATMENT PLANT (WTP) FOR TANK SLUDGE PRETREATMENT (I.E., CAUSTIC WASHING). A REPORT WILL BE PREPARED IN CONCERT WITH M-92-10 TO: 1) DETERMINE WHERE THE SODIUM WILL BE CONVERTED (I.E., AN EXISTING FACILITY OPERATED BY ARGONNE NATIONAL LABORATORY - WEST (ANL-W) LOCATED WITHIN THE INEEL SITE OR AT A NEW FACILITY TO BE CONSTRUCTED ADJACENT TO THE SODIUM STORAGE FACILITY) AND 2) TO ESTABLISH NEED DATES FOR DELIVERY OF THE CAUSTIC TO WTP. FOLLOWING SUBMITTAL OF THIS REPORT, APPROPRIATE MILESTONES AND/OR TARGET DATES WILL BE ESTABLISHED FOR THE FINAL DISPOSITION OF THE SODIUM.	07/31/2007
M-081-14	COMPLETE FFTF SODIUM DRAIN. THIS MILESTONE WILL BE COMPLETE WHEN ALL SODIUM (WITH THE EXCEPTION OF NOTED SODIUM RESIDUALS) HAS BEEN DRAINED FROM THE FFTF REACTOR AND ITS ASSOCIATED SYSTEMS AND THE FUEL STORAGE VESSELS.	9/30/2009
M-081-14-T02	INITIATE INTERIM DECAY STORAGE VESSEL SODIUM DRAIN. THIS MILESTONE WILL BE COMPLETE WHEN SODIUM DRAIN FROM THE INTERIM DECAY STORAGE VESSEL IS BEGUN. COMPLETION WILL BE ACHIEVED WHEN ALL THE PREPARATORY ACTIONS (I.E., PROCEDURES WRITTEN AND APPROVED, PLANT CONFIGURATION LINE-UP, OPERATOR TRAINING, FACILITY STARTUP REVIEW) HAVE BEEN COMPLETED AND SODIUM IS BEING TRANSFERRED TO IN-PLANT TANK T-43.	6/30/2008
M-081-15	SUBMIT FFTF SURVEILLANCE AND MAINTENANCE PLAN. DOE WILL DEVELOP A PLAN DETAILING S&M ACTIVITIES TO OCCUR AT FFTF DURING THE S&M PHASE. THIS PLAN WILL BE PROVIDED TO EPA AND ECOLOGY FOR REVIEW, AND APPROVAL FOR THE REGULATED UNITS AND/OR HAZARDOUS SUBSTANCES PROPOSED TO REMAIN AT THE FACILITY. THIS PLAN WILL INCLUDE DOCUMENTATION OF LISTS OF HAZARDOUS SUBSTANCES INCLUDING DANGEROUS WASTES THAT REMAIN IN THE FFTF FACILITY UPON COMPLETION OF TRANSITION BECAUSE THE HAZARDOUS SUBSTANCE: (1) CONTAINS NON-DANGEROUS WASTE COMPONENTS THAT ARE HIGHLY RADIOACTIVE, (2) IS PART OF THE PLANT STRUCTURE AND/OR (3) IS AN INTACT PIECE(S) OF EQUIPMENT.	06/30/2010
M-083-00A LEAD AGENCY: ECOLOGY	COMPLETE PFP FACILITY TRANSITION & SELECTED DISPOSITION ACTIVITIES.	09/30/2016

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>COMPLETION OF THIS MAJOR MILESTONE INCLUDES THE FOLLOWING KEY ELEMENTS: 1) COMPLETION OF ALL ACTIVITIES NECESSARY TO ACHIEVE END POINT CRITERIA ESTABLISHED THROUGH MILESTONE M-83-20 FOR PLACING THE PFP FACILITY IN A SAFE AND STABLE S&M MODE, 2) COMPLETION OF ALL ACTIVITIES DESCRIBED IN THE APPROVED M-83 SERIES INTERIM MILESTONES AND TARGET DATE; AND 3) COMPLETION OF THE BALANCE OF PFP SELECTED DISPOSITION ACTIVITIES PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	
M-083-22	<p>SUBMIT TO ECOLOGY AN ENGINEERING EVALUATION/COST ANALYSIS(ES) [EE/CA(S)] FOR APPROVAL AND PROVIDE AN ACTION MEMORANDUM(A) AS A PRIMARY DOCUMENT(S) FOR THE DECOMMISSIONING OF THE PFP FACILITY.</p> <p>THE ACTION MEMORANDUM(A) WILL INCLUDE A SCHEDULE FOR THE SUBMITTAL OF WORK PLANS AS PRIMARY DOCUMENT(S). SCOPING OF THE EE/CA(S) SHALL BE DONE TO SUPPORT TIMELY ACCOMPLISHMENT OF DISMANTLEMENT WORK SCOPE. MORE SPECIFICALLY, AN EE/CA AND ACTION MEMORANDUM CAN BE PHASED TO SUPPORT A NEAR TERM DISMANTLEMENT WITH SUBSEQUENT EE/CA(S) ADDRESSING REMAINING WORK SCOPE. THE ACTION MEMORANDUM(A) WILL BE CONSISTENT WITH SECTION 8 OF THE HFFACO AND WILL NOT BE INCONSISTENT WITH EXECUTIVE ORDER 12850.</p> <p>COMPLETION OF THIS MILESTONE SHALL ALSO REQUIRE DOE TO PERFORM AN EVALUATION OF ACTIONS NECESSARY TO ADDRESS BELOW-GRADE STRUCTURES OR OTHER STRUCTURES OR HAZARDOUS SUBSTANCES, DANGEROUS WASTE OR DANGEROUS CONSTITUENTS REMAINING AFTER COMPLETION OF M-83-00A. THIS WILL INCLUDE ENVIRONMENT ANALYSIS AND PUBLIC REVIEW.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2008
M-083-23	<p>COMPLETE NEGOTIATIONS AS NEEDED FOR REVISING MILESTONES CONSISTENT WITH FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP.</p> <p>IF THE FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP DO NOT SUPPORT THE EXISTING MILESTONES LEADING TO THE PROPOSED END POINT OF A SAFE AND STABLE SLAB-ON-GRADE CONFIGURATION, AND ECOLOGY DETERMINES THAT SUCH MILESTONES ARE NOT NEEDED TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT OR TO ACHIEVE COMPLIANCE WITH APPLICABLE REGULATIONS, THE PARTIES WILL COMPLETE NEGOTIATIONS TO ESTABLISH REVISED MILESTONES CONSISTENT WITH THE DECISION DOCUMENTATION. THIS MILESTONE IS COMPLETE IF NEGOTIATIONS ARE COMPLETED BY THE INDICATED DATE OR IF ECOLOGY DETERMINES THAT NEGOTIATIONS ARE NOT REQUIRED.</p>	03/31/2009

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-083-24	<p>SUBMIT A SURVEILLANCE AND MAINTENANCE (S&M) PLAN AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT SECTION 8.5.4.</p> <p>A S&M PLAN WILL BE SUBMITTED TO ECOLOGY AS LEAD REGULATORY AGENCY. LEAD REGULATORY AGENCY APPROVAL WILL BE SPECIFIC TO INFORMATION AFFECTING REGULATED UNITS AND HAZARDOUS SUBSTANCES IN THE FACILITY. THE S&M PLAN WILL DESCRIBE THOSE ACTIVITIES THAT WILL OCCUR DURING THE S&M PERIOD AND INCLUDE THE FOLLOWING: 1) SURVEILLANCE; (2) MAINTENANCE; (3) QUALITY ASSURANCE; (4) RADIOLOGICAL CONTROLS; (5) HAZARDOUS SUBSTANCE INVENTORY, MANAGEMENT AND PROTECTION; (6) HEALTH AND SAFETY/EMERGENCY PREPAREDNESS; (7) SAFEGUARDS AND SECURITY; AND (8) COST AND SCHEDULE.</p>	06/30/2012
M-083-32	<p>COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT.</p> <p>COMPLETE THOSE ACTIVITIES REQUIRED BY THE 241-Z TREATMENT AND STORAGE UNIT'S RCRA CLOSURE PLAN.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2011
M-083-40	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG INCINERATOR.</p> <p>REMOVE THE 232-Z BUILDING PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS. INCLUDED IN THIS MILESTONE IS THE PORTION OF THE 232-Z EXHAUST DUCT INSIDE THE 291-Z BUILDING, CONSISTENT WITH THE END POINT CRITERIA DEVELOPED IN M-83-20. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.</p>	09/30/2006
M-083-41	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 216-Z-9 CRIB COMPLEX.</p> <p>REMOVE THE ABOVE-GRADE PORTION OF THE 216-Z-9A, B, & C BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLAN. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.</p>	09/30/2010
M-083-42	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY.</p> <p>REMOVE THE ABOVE GRADE PORTION OF THE 241-Z, ZA, ZB, & ZG BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDUM AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLANS. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.</p>	09/30/2011

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-083-43	<p>COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PLUTONIUM RECLAMATION FACILITY TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR FUTURE DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 242-Z AND 236-Z BUILDINGS.</p>	09/30/2013
M-083-44	<p>COMPLETE TRANSITION OF THE 234-5Z (PLUTONIUM CONVERSION FACILITY) & ZA (PLUTONIUM CONVERSION SUPPORT FACILITY), 243-Z LOW LEVEL WASTE TREATMENT FACILITY, 291-Z EXHAUST BUILDING, AND 291-Z-1 EXHAUST STACK TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 234-5Z & ZA, 243-Z, AND 291-Z AND 291-Z-1 STACK BUILDINGS.</p>	09/30/2015
M-089-00 LEAD AGENCY: ECOLOGY	COMPLETE CLOSURE OF NON-PERMITTED MIXED WASTE UNITS IN THE 324 BUILDING REC B-CELL, REC D-CELL, AND HIGH LEVEL VAULT.	9/30/2010
M-090-00	<p>COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES AS NECESSARY FOR STORAGE OF HANFORD SITE IHLW AND ILAW, AND DISPOSAL OF ILAW.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-90 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-90 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	<p>To Be Established 6 MONTHS AFTER APPROVAL OF PROJECT MANAGEMENT PLAN</p>
M-090-10	<p>READY TO ACCEPT PLACEMENT OF ILAW WASTE IN ILAW DISPOSAL FACILITY.</p> <p>(LOW ACTIVITY WASTE PACKAGES PLACED WITHIN THESE FACILITIES WILL BE RETRIEVABLE).</p>	08/31/2008
M-090-11	<p>COMPLETE CANISTER STORAGE FACILITY CONSTRUCTION.</p> <p>COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS AND STARTUP ACTIVITIES NECESSARY FOR CANISTER STORAGE FACILITY RECEIPT OF ALL HANFORD SITE HIGH LEVEL WASTE CANISTERS FROM TANK WASTE TREATMENT PLANT RESULTING FROM COMPLIANCE WITH M-62-00A. FOR PURPOSES OF THIS INTERIM MILESTONE IHLW CANISTER</p>	08/31/2010

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	STORAGE IS DEFINED AS THE CAPABILITY FOR STORAGE OF AT LEAST 600 IHLW CANISTERS. INTERIM MILESTONES AND ASSOCIATED TARGET DATES ESTABLISHING WORK SCHEDULES FOR ADDITIONAL IHLW CANISTER STORAGE WILL BE ESTABLISHED DURING NEGOTIATIONS REQUIRED BY MILESTONE M-62-08. FOR PERMITTING PURPOSES DETAIL DESIGNS OF CRITICAL SYSTEMS INCLUDES THE CANISTER STORAGE TUBE SYSTEM.	
M-091-00	<p>COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND MODIFICATION OF PLANNED FACILITIES NECESSARY FOR RETRIEVAL, STORAGE, AND TREATMENT/PROCESSING, OF ALL HANFORD SITE RCRA MIXED AND SUSPECT MIXED LOW-LEVEL WASTE AND RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE.</p> <p>DEFINITIONS</p> <p>THE FOLLOWING DEFINITIONS APPLY TO THIS SERIES OF MILESTONES.</p> <p>"BOXES AND LARGE CONTAINERS" AS USED HEREIN IS DEFINED AS WASTE CONTAINERS THAT ARE NOT 55-GALLON DRUMS AND THAT CANNOT BE PLACED IN SUCH DRUMS.</p> <p>"DESIGNATION" AS USED HEREIN IS DEFINED AS THE PROCESS FOR DETERMINING: (1) WHICH CONTAINERS OF LOW-LEVEL WASTE ARE MLLW; AND, (2) WHICH CONTAINERS OF TRANSURANIC WASTE ARE MIXED TRANSURANIC WASTE (CH-TRUM OR RH-TRUM). DESIGNATION OF WASTE WILL BE PERFORMED PURSUANT TO WAC 173-303-070 THROUGH 100. THESE REGULATIONS ALLOW THE USE OF "ACCEPTABLE KNOWLEDGE," SURROGATE SAMPLING AND OTHER MEASURES FOR DESIGNATION TO MINIMIZE WORKERS' RADIATION EXPOSURE AND TO REDUCE COSTS. WHERE APPLICABLE, DOE INTENDS TO USE INFORMATION GATHERED THROUGH THE CERTIFICATION OF TRANSURANIC WASTE IN SUPPORT OF ITS DESIGNATION OF RELATED LOW-LEVEL WASTE STREAMS. WHERE APPROPRIATE, DOE WILL USE MEASURES ALLOWED UNDER STATE AND FEDERAL REGULATIONS TO PERFORM ACCURATE AND COST EFFECTIVE DESIGNATIONS OF LOW-LEVEL WASTE.</p> <p>"LOW-LEVEL WASTE" AS USED HEREIN IS DEFINED AS RADIOACTIVE WASTE THAT IS NOT SPENT FUEL, HIGH-LEVEL WASTE, TRANSURANIC WASTE, BYPRODUCT MATERIAL, OR NATURALLY OCCURRING RADIOACTIVE MATERIAL. LOW-LEVEL WASTE INCLUDES BOTH "MIXED LOW-LEVEL WASTE" AND "NON-MIXED LOW-LEVEL WASTE." "MIXED LOW-LEVEL WASTE" (MLLW) IS LOW-LEVEL WASTE THAT IS SUBJECT TO RCRA OR 70.105 RCW. "NON-MIXED LOW-LEVEL WASTE" (LLW) IS LOW-LEVEL WASTE THAT IS NOT SUBJECT TO RCRA OR 70.105 RCW. LLW AND MLLW CAN BE CONTACT-HANDLED (CH), I.E., CH-LLW OR CH-MLLW, OR REMOTE-HANDLED (RH), I.E., RH-LLW OR RH-MLLW.</p> <p>"CONTACT HANDLED" (CH) WASTE IS A WASTE PACKAGE WITH A SURFACE DOSE RATE LESS THAN 200 MILLIREM PER HOUR.</p> <p>"REMOTE HANDLED" (RH) WASTE IS A WASTE PACKAGE WITH A SURFACE DOSE RATE EQUAL TO OR GREATER THAN 200 MILLIREM PER HOUR.</p>	To Be Determined*

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>"RETRIEVABLY STORED WASTE" (RSW) AS USED HEREIN IS DEFINED AS WASTE THAT IS OR WAS BELIEVED TO BE CONTAMINATED WITH SIGNIFICANT CONCENTRATIONS OF TRANSURANIC ISOTOPES WHEN IT WAS PLACED IN THE 218-W-4B, 218-W-4C, 218-W-3A AND 218-E-12B BURIAL GROUND TRENCHES AFTER MAY 6, 1970. DURING THE RETRIEVAL PROCESS, CONTAINERS OF RSW WILL BE SEGREGATED INTO TWO CATEGORIES: (1) CH RSW AND (2) RH RSW. SUBSEQUENT ANALYSIS AND CATEGORIZATION OF RSW PURSUANT TO RCRA, CH. 70.105 RCW, THE ATOMIC ENERGY ACT, AND THE WIPP LAND WITHDRAWAL ACT WILL RESULT IN MOST OR ALL OF THIS WASTE BEING CLASSIFIED AS ONE OF THE FOLLOWING TYPES OF WASTE: CH-LLW, RH-LLW, CH-MLLW, RH-MLLW, CH-TRU, CH-TRUM, RH-TRU OR RH-TRUM. RSW DOES NOT INCLUDE WASTE IN CONTAINERS THAT HAVE DETERIORATED TO THE POINT THAT THEY CANNOT BE RETRIEVED AND STABILIZED (E.G. PLACED IN OVERPACKS) IN A MANNER THAT WOULD ALLOW THEM TO BE TRANSPORTED AND DESIGNATED WITHOUT POSING SIGNIFICANT RISKS TO WORKERS, THE PUBLIC OR THE ENVIRONMENT. WITH RESPECT TO ANY SUCH CONTAINERS, AND WITH RESPECT TO ANY RELEASE OF RSW, THE DECISION AS TO HOW TO MOVE FORWARD WILL BE DETERMINED THROUGH THE CLEANUP PROCESS SET FORTH IN RCRA, CH. 70.105 RCW, AND/OR CERCLA AS APPROPRIATE. THOSE PROCESSES MAY RESULT IN ADDITIONAL REQUIREMENTS FOR THE REMEDIATION OF SUCH WASTES.</p> <p>"CAISSON WASTE" AS USED HEREIN IS DEFINED AS RSW IN THE 218-W-4B BURIAL GROUND CAISSONS ALPHA-1 THROUGH ALPHA-4.</p> <p>"TRANSURANIC WASTE" AS USED HEREIN IS DEFINED AS WASTE THAT MEETS THE DEFINITION IN SUBSECTION (18) OF SECTION 2 OF THE WASTE ISOLATION PILOT PLANT LAND WITHDRAWAL ACT, PUB. L. 102-579. TRANSURANIC WASTE INCLUDES BOTH "MIXED TRANSURANIC WASTE" (TRUM) WASTE" AND "NON-MIXED TRANURANIC WASTE" (TRU), AND COMPRISES THE FOLLOWING CATEGORIES: CH-TRU, CH-TRUM, RH-TRU, AND RH-TRUM.</p> <p>"RETRIEVAL OF CH RSW" IS DEFINED AS UNCOVERING CH WASTES WITHIN DOE'S RSW TRENCHES, AND REMOVING SUCH CH WASTES FROM THE TRENCHES TO A PERMITTED AND COMPLIANT TREATMENT, STORAGE OR DISPOSAL FACILITY, THE ENVIRONMENTAL RESTORATION AND DISPOSAL FACILITY (ERDF) OR FOR WASTE DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS NON-MIXED TO A STORAGE OR DISPOSAL FACILITY THAT DOE DETERMINES IS APPROPRIATE. STORAGE OF ANY RETRIEVED CH RSW THAT HAS NOT BEEN DESIGNATED AS NON-MIXED PURSUANT TO WAC 173-303-070 THROUGH -100 SHALL INCLUDE SECONDARY CONTAINMENT PURSUANT TO WAC 173-303-630(7).</p> <p>"RETRIEVAL OF RH RSW" IS DEFINED AS UNCOVERING RH WASTES WITHIN DOE'S RSW TRENCHES AND CAISSONS, AND REMOVING SUCH RH WASTES FROM THE TRENCHES TO A PERMITTED AND COMPLIANT TREATMENT, STORAGE OR DISPOSAL FACILITY, THE ENVIRONMENTAL RESTORATION AND DISPOSAL FACILITY (ERDF) OR FOR WASTE DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS NON-MIXED TO A STORAGE OR DISPOSAL FACILITY THAT DOE</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>DETERMINES IS APPROPRIATE. STORAGE OF ANY RETRIEVED RH RSW THAT HAS NOT BEEN DESIGNATED AS NON-MIXED PURSUANT TO WAC 173-303-070 THROUGH -100 SHALL INCLUDE SECONDARY CONTAINMENT PURSUANT TO WAC 173-303-630(7).</p> <p>* NOTE: THE M-91 SERIES MILESTONES (INCLUDING THIS NOTE) DO NOT INCLUDE ANY REQUIREMENTS TO ESTABLISH SCHEDULES FOR THE MANAGEMENT OF PRE-1971 TRU/TRUM. SCHEDULES FOR THE MANAGEMENT OF PRE-1971TRU/TRUM WILL BE ESTABLISHED, PURSUANT TO APPLICABLE PROVISIONS OF THE HFFACO OTHER THAN THE M-91 SERIES MILESTONES, FOLLOWING THE ISSUANCE OF OPERABLE UNIT RECORDS OF DECISION (RODS).</p>	
M-091-01	<p>COMPLETE THE ACQUISITION OF CAPABILITIES AND/OR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR RETRIEVAL, DESIGNATION, STORAGE, AND TREATMENT/PROCESSING PRIOR TO DISPOSAL OF ALL HANFORD SITE POST 1970 RH TRUM AND SUSPECT RH TRUM, TRUM IN BOXES AND LARGE CONTAINERS, AND SUSPECT TRUM IN BOXES AND LARGE CONTAINERS.</p>	06/30/2012
M-091-03	<p>SUBMIT REVISION OF THE HANFORD SITE TRUM AND MIXED LOW-LEVEL WASTE PROJECT MANAGEMENT PLAN (PMP) TO ECOLOGY PURSUANT TO, AND IN COMPLIANCE WITH THE REQUIREMENTS OF AGREEMENT SECTION 11.5. REVISIONS OF THE PMP SHALL ADDRESS RCRA MIXED AND SUSPECT MIXED TRANSURANIC AND LOW LEVEL WASTE AND WILL CONSIDER AND EXPRESSLY EVALUATE THE IMPACT ON M-91 RETRIEVAL, TREATMENT AND PROCESSING CAPABILITIES, THAT MAY RESULT FROM RETRIEVAL, TREATMENT AND/OR PROCESSING OF ANY OTHER TRANSURANIC OR SUSPECT TRANSURANIC WASTE INCLUDING BUT NOT LIMITED TO OFF-SITE TRANSURANIC WASTE AND HANFORD SITE TRANSURANIC WASTE GENERATED AFTER 1/1/03. REVISIONS OF THE PMP SHALL BE SUBMITTED ON 12/31/2003, 3/31/2009 AND 3/31/2013. EACH REVISION IS A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THIS AGREEMENT.</p> <p>WITH RESPECT TO RH MIXED WASTE AND MIXED WASTE IN BOXES AND LARGE CONTAINERS, THE PMP SUBMITTED ON 12/31/2003 WILL SPECIFICALLY IDENTIFY MEASURABLE ACTIONS TO BE TAKEN BY DOE TO ACQUIRE CAPABILITIES TO MANAGE SUCH WASTES. THE PMP SHALL IDENTIFY SUCH MEASURABLE ACTIONS AT LEAST YEARLY.</p> <p>THE PMP SUBMITTED ON 12/31/2003 WILL NOT BE REQUIRED TO CONTAIN PLANS AND SCHEDULES FOR THE LDR TREATMENT (OR CERTIFICATION IN LIEU OF SUCH TREATMENT AS PROVIDED FOR IN M-91-42 AND M-91-44) OF TRUM WASTE. DOE SHALL REVISE THE PMP TO INLCUDE PLANS AND SCHEDULES FOR LDR TREATMENT (OR CERTIFICATION IN LIEU OF SUCH TREATMENT AS PROVIDED IN M-91-42 AND M-91-44) OF TRUM WASTE BY 12/28/06.</p> <p>PMP REVISIONS WILL BE SUBMITTED TO ECOLOGY FOR REVIEW AND APPROVAL AS PRIMARY DOCUMENTS PURSUANT TO AGREEMENT ACTION</p>	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>PLAN SECTION 9.2.1. DOE SHALL IMPLIMENT THE PLAN AS APPROVED.</p> <p>ONCE APPROVED, THE PMP SUBMITTED ON 12/31/2003, IN ACCORDANCE WITH THIS MILESTONE SHALL SUPERSEDE THOSE PORTIONS OF PREVIOUSLY SUBMITTED DOE PMPS THAT CONCERNED RCRA MIXED WASTE, SUSPECT MIXED TRANSURANIC AND SUSPECT MIXED LOW LEVEL WASTE.</p>	
M-091-05-T01	<p>COMPLETE AND SUBMIT RH TRUM SUSPECT RH TRUM, TRUM IN BOXES AND LARGE CONTAINERS, AND SUSPECT TRUM IN BOXES AND LARGE CONTAINERS RETRIEVAL AND PROCESSING FACILITY(IES) ENGINEERING STUDY/FUNCTIONAL DESIGN CRITERIA STUDY TO ECOLOGY FOR FACILITIES REQUIRED BY M-91-01.</p> <p>THE TRUM ENGINEERING/FUNCTIONAL DESIGN CRITERIA STUDY WILL COVER ACTIVITIES/FACILITIES NOT CONSIDERED COMMERCIALY VIABLE AS DOCUMENTED IN THE APPROVED TRUM PMP AND ASSOCIATED AGREEMENT CHANGE REQUESTS.</p>	12/31/2007
M-091-12	COMPLETE THERMAL TREATMENT OF AN ADDITIONAL 360 CUBIC METERS OF CONTACT HANDLED MLLW. THIS BRINGS THE CUMULATIVE TOTAL TO AT LEAST 600 CUBIC METERS OF CONTACT HANDLED MLLW THERMALLY TREATED.	11/16/2007
M-091-15	COMPLETE ACQUISITION OF FACILITIES AND/OR CAPABILITIES AND INITIATE TREATMENT OF RH MLLW AND CH MLLW IN BOXES AND LARGE CONTAINERS.	06/30/2008
M-091-40	<p>REGARDING THE RETRIEVAL AND DESIGNATION OF CONTACT-HANDLED (CH) RETRIEVBLY STORED WASTE (RSW) AND TREATMENT OF SUCH WASTES DESIGNATED AS MIXED TO MEET APPLICABLE FEDERAL AND STATE LAND DISPOSAL RESTRICTION (LDR) STANDARDS (ALL CH RSW WASTE REGARDLESS OF PACKAGE SIZE):</p> <p>1. DOE SHALL RETRIEVE ALL CH-RSW WITHIN BURIAL GROUNDS 218-W-4C, 218-W-4B, 218-W-3A, AND 218-E-12B BY DECEMBER 31, 2010. IN ACHIEVING THIS RETRIEVAL REQUIREMENT, DOE SHALL FIRST INITIATE RETRIEVAL AT ITS BURIAL GROUND 218-W-4C NO LATER THAN NOVEMBER 15, 2003, AND SHALL RETRIEVE RSW AT THE FOLLOWING RATES :</p> <ul style="list-style-type: none"> - 1,200 CUBIC METERS (CUMULATIVE) BY 12/31/04, - 2,700 CUBIC METERS (CUMULATIVE) BY 12/31/05, - 4,700 CUBIC METERS (CUMULATIVE) BY 12/31/06, - 7,200 CUBIC METERS (CUMULATIVE) BY 12/31/07, - 9,700 CUBIC METERS (CUMULATIVE) BY 12/31/08, - 12,200 CUBIC METERS (CUMULATIVE) BY 12/31/09, - COMPLETE RETRIEVAL OF CH-RSW BY 12/31/2010. <p>CONCURRENT RETRIEVAL ACTIONS CAN BE CONDUCTED IN MULTIPLE BURIAL GROUNDS. IF SPECIFIC BOXES AND LARGE</p>	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CONTAINERS CANNOT BE REMOVED FROM A TRENCH WITHIN 60 DAYS OF BEING EXPOSED DOE SHALL NOTIFY ECOLOGY WITHIN THE 60 DAY PERIOD. ECOLOGY WILL INSPECT THE CONTAINER AND IMPOSE SPECIFIC CONDITIONS FOR THAT WASTE CONTAINER TO PREVENT RELEASES TO THE ENVIRONMENT. IN DETERMINING SUCH CONDITIONS ECOLOGY WILL CONSIDER AMONG OTHER FACTORS; WHETHER THE WASTE CONTAINER HAS BEEN INSPECTED AND FOUND TO BE INTACT AND NOT POSING A THREAT TO HUMAN HEALTH AND THE ENVIRONMENT(OR RE-PACKAGED TO PREVENT RELEASE TO THE ENVIRONMENT)AND EXISTING DOCUMENTATION CONCERNING THE PRESENCE OF FREE LIQUIDS.</p> <p>2. AS RSW RETRIEVAL PROCEEDS, DOE SHALL SAMPLE AND ANALYZE TRENCH SUBSTRATES WITH THE PURPOSES OF DETERMINING WHETHER OR NOT RELEASES OF CONTAMINANTS TO THE ENVIRONMENT HAVE OCCURRED, AND, IF SO, THE NATURE AND EXTENT OF CONTAMINATION.</p> <p>SUCH SAMPLING AND ANALYSIS SHALL BE IN ACCORDANCE WITH ECOLOGY APPROVED SAMPLING AND ANALYSIS PLANS (SAP). THE SAP WILL BE DEVELOPED USING A DQO PROCESS TO ESTABLISH SAMPLING REQUIREMENTS FOR SAMPLING OF BURIAL GROUND VENT RISERS AND SUBSTRATE SOILS. DOE PROVIDED ECOLOGY WITH A DRAFT 218-W-4C SAP ON 8/12/03. ECOLOGY'S INTENTION IS TO ISSUE A FINAL SAP WITHIN 30 DAYS. WITH RESPECT TO THE REMAINING BURIAL GROUNDS, DOE WILL PROVIDE ECOLOGY WITH UPDATED SAPS, IF NEEDED, FOR REVIEW AND APPROVAL AT LEAST 45 DAYS PRIOR TO STARTING RETRIEVAL IN EACH BURIAL GROUND. DOE WILL IMPLEMENT APPROVED SAPS, AS A REQUIREMENT OF THIS MILESTONE, DURING RETRIEVAL OF ALL RSW.</p> <p>THE RESULTS OF BURIAL GROUND VENT AND SUBSTRATE SAMPLING AND ANALYSIS PURSUANT TO APPROVED SAPS SHALL BE SUBMITTED TO ECOLOGY BY LETTER REPORTS QUARTERLY. SUCH REPORTS SHALL DOCUMENT RESULTS AND METHODOLOGIES, SHALL ASSESS RESULTS AGAINST REGULATORY REQUIREMENTS, SHALL INCLUDE A DESCRIPTION (OR DESCRIPTIONS) OF DOCUMENTED CONTAMINANT RELEASES TO THE ENVIRONMENT, AND SHALL DESCRIBE PLANNED AND/OR SCHEDULED ADDITIONAL WORK.</p> <p>3. WITHIN 90 DAYS OF RETRIEVAL, DOE SHALL DESIGNATE ALL CH RSW RETRIEVED FROM THE RSW TRENCHES PURSUANT TO WAC 173-303-070 THROUGH 100, AND SHALL SPECIFICALLY IDENTIFY INDIVIDUAL BOXES AND LARGE CONTAINERS THAT CANNOT BE DESIGNATED BASED ON AVAILABLE PROCESS KNOWLEDGE. FOR THE BOXES AND LARGE CONTAINERS DETERMINED TO BE LOW-LEVEL WASTE THAT CANNOT BE DESIGNATED BASED ON THE AVAILABLE PROCESS KNOWLEDGE, DOE SHALL DESIGNATE SAID WASTE ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2008 (SIX MONTHS AFTER THE RH AND LARGE CONTAINER MLLW FACILITIES AND/OR CAPABILITIES ARE REQUIRED TO BE OPERATIONAL). FOR BOXES AND LARGE CONTAINERS DETERMINED TO BE TRANSURANIC WASTE</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>THAT CANNOT BE DESIGNATED BASED ON THE AVAILABLE PROCESS KNOWLEDGE, DOE SHALL DESIGNATE SAID WASTE ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2012 (SIX MONTHS AFTER THE RH AND LARGE CONTAINER TRANSURANIC FACILITIES AND/OR CAPABILITIES ARE REQUIRED TO BE OPERATIONAL).</p> <p>4. FOR ALL RETRIEVED CH-RSW DETERMINED TO BE LOW LEVEL WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-42(2) AND M-91-43(3).</p> <p>5. IN REGARD TO THE CARBON TETRACHLORIDE VAPOR PLUME IN THE VADOSE ZONE IN THE VICINITY OF TRENCH 4 IN BURIAL GROUND 218-W-4C, DOE SHALL:</p> <p>START VAPOR EXTRACTION BY NOVEMBER 15, 2003, TO REDUCE CARBON TETRACHLORIDE VAPORS.</p> <p>START RETRIEVAL IN TRENCH 4 BY JANUARY 15, 2004</p> <p>COMPLETE RETRIEVAL OF TRENCH 4 BY DECEMBER 31, 2006. (WITH THE EXCEPTION OF THOSE BOXES AND LARGE CONTAINERS THAT THE PARTIES HAVE AGREED, IN WRITING, MAY BE RETRIEVED OUT OF SEQUENCE.)</p> <p>RETRIEVAL WILL CONTINUE IN TRENCH 4 UNTIL IT IS COMPLETE. VAPOR EXTRACTION AND RETRIEVAL OPERATIONS IN TRENCH 4 WILL BE INTEGRATED BY DOE TO MINIMIZE POTENTIAL WORKER EXPOSURE TO CARBON TETRACHLORIDE VAPORS, AND TO MITIGATE ANY POSSIBLE RELEASES OF CARBON TETRACHLORIDE FROM TRENCH 4 CONTAINERS.</p> <p>6. FOR ALL RETRIEVED CH-RSW DETERMINED TO BE TRANSURANIC WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN COMPLIANCE WITH THE SCHEDULE IN M-91-42(4) AND M-91-44(3).</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF CH TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENT WHEN DISPOSED AT WIPP. IF DOE CHOOSES TO CERTIFY IN LIEU OF TREATMENT, IT MAY MEET THE VOLUME REQUIREMENTS SPECIFIED IN THIS MILESTONE FOR ANY GIVEN YEAR BY CERTIFYING CH TRU OR CH TRUM.</p> <p>7. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	ENFORCEMENT PROVISIONS OF THE AGREEMENT.	
M-091-41	<p>REGARDING THE RETRIEVAL AND DESIGNATION OF REMOTE HANDLED (RH) RSW (ALL RSW RH WASTE REGARDLESS OF PACKAGE SIZE, INCLUDING THE 200 AREA CAISSONS), AND LDR TREATMENT OF SUCH WASTES DETERMINED TO BE MIXED.</p> <ol style="list-style-type: none"> DOE SHALL INITIATE FULL SCALE RETRIEVAL OF RH RSW BY JANUARY 1, 2011. RETRIEVAL OF NON-CAISSON RH RSW SHALL BE COMPLETED BY DECEMBER 31, 2014. RETRIEVAL THE 200 AREA CAISSON RH RSW IN THE 218-W-4B BURIAL GROUND SHALL BE COMPLETED BY DECEMBER 31, 2018. DOE SHALL DESIGNATE ALL RETRIEVED RH RSW PURSUANT TO WAC 173-303-070 THROUGH 100, WITHIN 90 DAYS OF RETRIEVAL. FOR ALL RETRIEVED RH-RSW DETERMINED TO BE LOW-LEVEL WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTE TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-43(3). FOR ALL RETRIEVED RH-RSW DETERMINED TO BE TRANSURANIC WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-44(3). DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF SUCH WASTES FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT. 	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>
M-091-42	<p>REGARDING: (1) NEWLY GENERATED CH WASTE; AND (2) CH WASTE CURRENTLY IN ABOVE-GROUND STORAGE (NOT INCLUDING CH WASTE CURRENTLY IN ABOVE-GROUND STORAGE IN BOXES AND LARGE CONTAINERS).</p> <ol style="list-style-type: none"> DOE SHALL DESIGNATE ALL NEWLY GENERATED CH WASTE AT THE POINT OF GENERATION. SUCH DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100. THERE ARE 5,066 CUBIC METERS OF CH-MLLW IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02 (AS IDENTIFIED IN DOE HFFACO MILESTONE M-26-01 LDR REPORT MLLW 	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>TREATABILITY GROUPS MLLW-02 THROUGH MLLW-10, EXCLUDING MLLW-07) THAT HAS NOT BEEN TREATED TO MEET LDR REQUIREMENTS. (THIS VOLUME DOES NOT INCLUDE 600 CUBIC METERS OF WASTE REQUIRING THERMAL TREATMENT, AS THAT WASTE IS REQUIRED TO BE TREATED BY 2006 UNDER HFFACO MILESTONES M-91-12 AND M-91-12A). DOE'S 2002 LDR REPORT ESTIMATES THAT IT WILL GENERATE AN ADDITIONAL ANNUAL VOLUME OF APPROXIMATELY 330 CUBIC METERS OF CH-MLLW (AS WASTE TYPES IDENTIFIED IN DOE HFFACO MILESTONE M-26-01 LDR REPORT MLLW TREATABILITY GROUPS MLLW-02 THROUGH MLLW-10, EXCLUDING MLLW-07). DOE WILL RETRIEVE APPROXIMATELY 800 CUBIC METERS OF CH-MLLW BY 2010. IN ADDITION TO MEETING THE REQUIREMENTS OF M-91-12 AND M-91-12A, DOE SHALL TREAT THE WASTE DESCRIBED ABOVE TO MEET LDR REQUIREMENTS ON A SCHEDULE MEETING, AT MINIMUM, THE FOLLOWING:</p> <p>A. 1630 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/04,</p> <p>B. 3260 CUBIC METERS BY (CUMULATIVE) SHALL BE TREATED BY 12/31/05,</p> <p>C. 4890 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/06,</p> <p>D. 6520 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/07,</p> <p>E. 8150 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/08, AND</p> <p>F. COMPLETE TREATMENT OF ALL CH-MLLW (5066 CUBIC METERS IN STORAGE AS OF 12/31/02 AS DESCRIBED ABOVE, AND RETRIEVED CH-MLLW AND NEWLY GENERATED CH-MLLW IN THE TREATABILITY GROUPS DESCRIBED ABOVE, AS OF 6/30/09) BY 12/31/09</p> <p>IF CH-MLLW IN THE TREATABILITY GROUPS SUBJECT TO THIS MILESTONE GENERATED DURING THE PERIOD FROM 12/31/02 THROUGH 6/30/09 IS TREATED TO LDR STANDARDS PRIOR TO DELIVERY TO STORAGE OR DISPOSAL, THE ORIGINAL PRE-TREATMENT VOLUME OF THAT WASTE SHALL BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. EXCEPT FOR WASTE ALREADY IN PERMITTED STORAGE, TREATMENT OF CERCLA WASTE WILL NOT BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-MLLW COVERED BY THIS MILESTONE IS LOWER THAN THE ESTIMATED VOLUMES ANTICIPATED BY THESE MILESTONES DOE WILL ONLY BE REQUIRED TO TREAT THE VOLUME OF WASTE GENERATED, RETRIEVED AND/OR IN STORAGE. IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-MLLW COVERED BY THIS MILESTONE IS SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES THE PARTIES' MAY AGREE TO REVISE THESE REQUIREMENTS.</p>	
3.	AFTER JUNE 30, 2009, DOE SHALL TREAT TO MEET LDR TREATMENT REQUIREMENTS ALL NEWLY GENERATED CH-MLLW	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CONTAINING LDR CONSTITUENTS IN COMPLIANCE WITH WAC 173-303-140 AND BY REFERENCE 40 CFR 268.</p> <p>4. THERE ARE APPROXIMATELY 440 CUBIC METERS OF CH-TRUM IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02. DOE'S 2002 LDR REPORT ESTIMATES THAT IT WILL GENERATE AN ADDITIONAL ANNUAL VOLUME OF APPROXIMATELY 220 CUBIC METERS OF CH-TRUM AND DOE ESTIMATES THEY WILL RETRIEVE APPROXIMATELY 1600 CUBIC METERS OF CH-TRUM BY 2010. CONSIDERING THESE ESTIMATES AND THE CONSIDERABLE UNCERTAINTY ASSOCIATED WITH THEM DOE SHALL TREAT THE WASTE CATEGORIES DESCRIBED ABOVE TO MEET LDR REQUIREMENTS ON THE FOLLOWING SCHEDULE:</p> <ul style="list-style-type: none"> - 700 CUBIC METERS BY 12/31/04; - 1,800 CUBIC METERS (CUMULATIVE) BY 12/31/05; - 3,000 CUBIC METERS (CUMULATIVE) BY 12/31/06, - 4,200 CUBIC METERS (CUMULATIVE BY 12/31/07 - 5,400 CUBIC METERS (CUMULATIVE BY 12/31/08 - 6,600 CUBIC METERS (CUMULATIVE BY 12/31/09 - 7,600 CUBIC METERS (CUMULATIVE) BY 12/31/10; - 8,600 CUBIC METERS (CUMULATIVE) BY 12/31/11. <p>IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-TRUM COVERED BY THIS MILESTONE IS LOWER THAN THE ESTIMATED VOLUMES ANTICIPATED BY THESE MILESTONES DOE WILL ONLY BE REQUIRED TO TREAT THE VOLUME OF WASTE GENERATED, RETRIEVED AND/OR IN STORAGE. IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-TRUM COVERED BY THIS MILESTONE IS SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES THE PARTIES' MAY AGREE TO REVISE THESE REQUIREMENTS.</p> <p>5. FOR CH TRANSURANIC WASTE NEWLY GENERATED ON OR AFTER 7/1/11 THAT IS DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS PURSUANT TO WAC 173-303-140 WITHIN ONE YEAR OF GENERATION.</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF CH TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP. IF DOE CHOOSES TO CERTIFY IN LIEU OF TREATMENT, IT MAY MEET THE VOLUME REQUIREMENTS SPECIFIED IN THIS MILESTONE FOR ANY GIVEN YEAR BY CERTIFYING CH TRU OR CH TRUM, PROVIDED THAT 1) ALL CH TRUM IN PERMITTED STORAGE AS OF 12/31/02 IS TREATED TO MEET LDR REQUIREMENTS OR CERTIFIED BY 12/31/2006 AND 2) ALL CH TRUM IN PERMITTED STORAGE AS OF 7/1/11 IS TREATED TO MEET LDR REQUIREMENTS OR IS CERTIFIED BY 12/31/2011.</p>	

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ONLY IN THE EVENT THAT ITEMS 4 OR 5 BECOME APPLICABLE, AMOUNTS OF CH TRUM CERTIFIED BETWEEN THE 12/31/02 AND THE DATE ON WHICH ITEMS 4 OR 5 BECOME APPLICABLE SHALL COUNT TOWARDS SATISFACTION OF THE OBLIGATIONS IN ITEMS 4 AND 5.</p> <p>6. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-43	<p>REGARDING: (1) NEWLY GENERATED RH LOW-LEVEL WASTE; (2) NEWLY GENERATED BOXES AND LARGE CONTAINERS OF CH LOW-LEVEL WASTE; (3) RH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND STORAGE; AND (4) BOXES AND LARGE CONTAINERS OF CH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND STORAGE.</p> <p>THERE ARE 81 CUBIC METERS OF RH-MLLW IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE STORAGE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02 (AS IDENTIFIED IN DOE HFFACO MILESTONE M-26-01 LDR REPORT MLLW TREATABILITY GROUPS MLLW-07) THAT HAS NOT BEEN TREATED TO MEET LDR REQUIREMENTS. DOE'S 2002 LDR REPORT CURRENTLY ESTIMATES THAT DOE WILL GENERATE AN ADDITIONAL YEARLY VOLUME OF 280 CUBIC METERS OF WASTE IN THIS TREATABILITY GROUP. IN ADDITION, DOE WILL RETRIEVE APPROXIMATELY 800 CUBIC METERS BY 2010. THIS INCLUDES VOLUMES OF RETRIEVED RSW.</p> <ol style="list-style-type: none"> DOE SHALL DESIGNATE ALL RH LOW-LEVEL WASTE AND BOXES AND LARGE CONTAINERS OF CH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND PERMITTED STORAGE (AS OF JUNE 30, 2003) ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2008. DOE SHALL DESIGNATE ALL NEWLY GENERATED RH LOW-LEVEL WASTE AND TRANSURANIC WASTE AND NEWLY GENERATED BOXES AND LARGE CONTAINERS OF CH-LOW-LEVEL WASTE AT THE POINT OF GENERATION. SUCH DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100. DOE SHALL BEGIN TREATING RH MLLW AND BOXES AND LARGE CONTAINERS OF CH MLLW TO MEET LDR TREATMENT REQUIREMENTS AT A MINIMUM RATE OF 300 CUBIC METERS PER YEAR BEGINNING NO LATER THAN JUNE 30, OF 2008. IF THERE ARE NOT 300 CUBIC METERS OF RH MLLW AND BOXES AND LARGE CONTAINERS OF CH MLLW IN STORAGE IN ANY GIVEN YEAR, THIS MILESTONE REQUIRES THAT DOE TREAT ONLY THAT AMOUNT THAT IS IN STORAGE. IF RH-MLLW IN THE TREATABILITY GROUPS SUBJECT TO THIS MILESTONE GENERATED DURING THE PERIOD FROM 12/31/02 THROUGH 6/30/09 IS TREATED TO LDR STANDARDS PRIOR TO DELIVERY TO STORAGE OR DISPOSAL, THE ORIGINAL PRE-TREATMENT VOLUME OF THAT WASTE SHALL BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. EXCEPT FOR WASTE ALREADY IN PERMITTED STORAGE, TREATMENT OF CERCLA WASTE WILL NOT BE COUNTED 	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. IF ACTUAL VOLUMES OF NEWLY GENERATED OR RETRIEVED RH AND BOXES AND LARGE CONTAINER MLLW ARE SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES, THIS MILESTONE WILL BE REVISED TO REFLECT ACTUAL VOLUMES.</p> <p>4. EACH ELEMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-44	<p>REGARDING: (1) NEWLY GENERATED RH TRANSURANIC WASTE; (2) NEWLY GENERATED BOXES AND LARGE CONTAINERS OF CH-TRANSURANIC WASTE; (3) RH TRANSURANIC WASTE CURRENTLY IN ABOVE GROUND STORAGE; AND (4) BOXES AND LARGE CONTAINERS OF CH TRANSURANIC WASTE CURRENTLY IN ABOVE-GROUND STORAGE.</p> <p>1. DOE SHALL DESIGNATE ALL RH TRANSURANIC WASTE AND BOXES AND LARGE CONTAINERS OF CH TRANSURANIC WASTE CURRENTLY IN ABOVE- GROUND STORAGE (AS OF JUNE 30, 2003) ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2012.</p> <p>2. DOE SHALL DESIGNATE ALL NEWLY GENERATED RH TRANSURANIC WASTE AND BOXES AND LARGE CONTAINERS OF TRANSURANIC WASTE AT THE POINT OF GENERATION. SUCH DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100.</p> <p>3. DOE SHALL BEGIN TREATING RH TRUM AND BOXES AND LARGE CONTAINERS OF CH TRUM TO MEET LDR TREATMENT REQUIREMENTS AT A MINIMUM RATE OF 300 CUBIC METERS PER YEAR BEGINNING NO LATER THAN JUNE 30, 2012. IF THERE ARE NOT 300 CUBIC METERS OF RH TRUM AND BOXES AND LARGE CONTAINERS OF CH TRUM IN STORAGE IN ANY GIVEN YEAR, THIS MILESTONE REQUIRES THAT DOE TREAT ONLY THAT AMOUNT THAT IS IN STORAGE. IF ACTUAL VOLUMES OF NEWLY GENERATED OR RETRIEVED RH TRUM AND BOXES AND LARGE CONTAINER TRUM ARE SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES, THIS MILESTONE WILL BE REVISED TO REFLECT ACTUAL VOLUMES.</p> <p>4. AS TO NEWLY GENERATED RH TRUM GENERATED AFTER 12/31/18 THAT IS DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH -100 AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT TO MEET LDR REQUIREMENTS WITHIN ONE YEAR OF GENERATION.</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF SUCH WASTES FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP.</p> <p>5. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A</p>	<p>DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE</p>

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.	
M-091-45	BY SEPTEMBER 30 OF EACH YEAR, DOE SHALL SUBMIT TO ECOLOGY A REPORT DESCRIBING COMPLETED AND SCHEDULED WORK RELATING TO RH WASTE AND BOXES AND LARGE CONTAINERS OF RH AND CH WASTE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS MILESTONE SERIES. DOE'S REPORTS WILL DOCUMENT WORK COMPLETED DURING THE PREVIOUS FEDERAL FISCAL YEAR AND WORK SCHEDULED FOR THE COMING FISCAL YEAR. DOE'S REPORTS SHALL IDENTIFY BY CITATION ALL PUBLICLY AVAILABLE REPORTS DESCRIBING PERTINENT PROJECT ISSUES AND ACCOMPLISHMENTS, AND SHALL IDENTIFY ANTICIPATED PROJECTS FOR THE COMING YEAR.	09/30/2004 AND ANNUALLY THEREAFTER
M-092-00	COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR THE STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE CESIUM AND STRONTIUM CAPSULES (Cs/Sr), BULK SODIUM (Na), AND 300 AREA SPECIAL WASTE (SCW).	To Be Established BY OCTOBER 1998
M-092-05	INCLUSION OF HANFORD SITE Cs/Sr "TREATMENT AND/OR REPACKAGING PARAMETERS" IN DOE TWRS PHASE II REQUEST FOR PROPOSALS (TREATMENT AND/OR REPACKAGING OF ALL REMAINING Cs/Sr). DOE WILL ASSESS THE VIABILITY OF DIRECTLY DISPOSING OF HANFORD CS/SR CAPSULES AT THE NATIONAL HIGH-LEVEL WASTE REPOSITORY. BASED ON THIS ASSESSMENT, IF DOE CONCLUDES THAT DIRECT DISPOSAL IS A VIABLE AND PREFERRED ALTERNATIVE TO VITRIFICATION, DOE WILL SUBMIT TO ECOLOGY SPECIFIC DOCUMENTATION JUSTIFYING ITS CONCLUSION, WITH A PROPOSED MILESTONE CHANGE REQUEST ESTABLISHING ENFORCEABLE AGREEMENT MILESTONES FOR DISPOSITIONING HANFORD CS/SR CAPSULES BY 2028.	06/30/2007
M-092-09	ESTABLISH MILESTONES AND/OR TARGET DATES IF NEEDED FOR ACQUISITION OF NEW FACILITIES, MODIFICATIONS OF EXISTING FACILITIES, AND /OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM.	07/30/2009
M-092-10	SUBMIT HANFORD SITE SODIUM DISPOSITION EVALUATION REPORT TO ECOLOGY. THE REPORT SHALL BE PREPARED IN CONCERT WITH M-81-10-T01, WHICH INDICATES THAT THE OFFICE OF RIVER PROTECTION (ORP) WASTE TREATMENT PLANT WILL USE THE HANFORD SITE RADIOACTIVE SODIUM INVENTORY (I.E. FFTF, HALLAM, AND SRE), FOLLOWING CONVERSION TO SODIUM HYDROXIDE, FOR TANK SLUDGE PRETREATMENT (I.E. CAUSTIC WASHING). THE REPORT WILL DETERMINE THE ORP NEED DATES AND IDENTIFY WHERE THE HANFORD SITE SODIUM INVENTORY WILL BE CONVERTED TO SODIUM HYDROXIDE, I.E., AT THE EXISTING ARGONNE NATIONAL LABORATORY - WEST SODIUM PROCESSING FACILITY (LOCATED WITHIN THE IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY SITE) OR AT A NEW FACILITY TO BE	07/31/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	CONSTRUCTED AT HANFORD.	
M-092-16	COMPLETE REMOVAL AND TRANSFER, AND INITIATE STORAGE OF PHASE III 300 AREA SCW WASTE AND MATERIALS. PHASE III INVENTORY WILL CONSIST OF ANY REMAINING 300 AREA SCW WASTES AND MATERIALS.	09/30/2006 9/30/15
M-093-00 LEAD AGENCY: DUAL	COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS. 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS CONSIST OF THE FOLLOWING: 105-D, 105-DR, 105-H, AND 105/109-N (ECOLOGY LEAD), AND 105-B, 105-C, 105-F, 105-KE, AND 105-KW (EPA LEAD).	To Be Determined
M-093-19	SUBMIT TO EPA AND ECOLOGY THE 105/109-N REACTOR INTERIM SAFE STORAGE DESIGN REPORT.	09/30/2009
M-093-20	COMPLETE 105-N REACTOR INTERIM SAFE STORAGE.	09/30/2012
M-093-22	COMPLETE 105-KE AND 105-KW REACTOR INTERIM SAFE STORAGE.	09/30/2011
M-093-23	SUBMIT ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) FOR KE/KW REACTOR ISS.	07/31/2006
M-094-00	COMPLETE DISPOSITION OF 300 AREA SURPLUS FACILITIES TO BE DEFINED AS THE 220 FACILITIES LISTED IN THE HANFORD RIVER CORRIDOR CLOSURE CONTRACT SOLICITATION #DE-RP06-04RL14655. COMPLETION OF FACILITY DISPOSITION IS DEFINED AS THE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. THE CLEANUP OF 300-FF-2 WASTE SITES ASSOCIATED WITH 300 AREA SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH TRI-PARTY AGREEMENT MAJOR MILESTONE M-016-00B.	09/30/2015
M-094-03	COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1).	09/30/2010
M-094-05	COMPLETE DEACTIVATION, DECONTAMINATION, DECOMMISSIONING AND DEMOLITION (D4) OF 313 AND 314 FACILITIES. FOUNDATIONS, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.	09/30/2006
M-094-06	COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 3 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720; TO INCLUDE THE 333 FACILITY. THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT	12/30/2007

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.	
M-094-07	<p>COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 3 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720; TO INCLUDE THE 306E, 306W, 3720 AND 305 FACILITIES.</p> <p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	12/30/2009
M-094-08	<p>COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 3 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720.</p> <p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	12/31/2011
M-094-09	COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 3 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309,	09/30/2013

Table D. Major and Interim Milestones and Target Dates

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720; TO INCLUDE THE 323 FACILITY AND THE 307 TRENCH.</p> <p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	